



R.E.D. Group of School

Summer Holidays Homework

Session - 2022-23

Grade: 10th

English –Holiday Homework

Holiday Homework:

“Learning is the only thing the mind never exhausts, never fears and never regrets”

Its vacations time again! It allows you to rejuvenate and catch up on hobbies and other interests that are best pursued with time. However, it is important to strike balance between leisure and learning. To enhance your learning is we have planned home assignments, to keep your skills sharp and concepts clear. It helps you to develop vital skills such as independent research.

1. Guidelines for practice during vacation along with completion of Home Assignment:

- Maintain and improve reading skills and honing writing skills.
- Enhance their imagination and self assessing skills, enquiry intelligence, predictionartistry, measuring art, observation techniques, analyzing skill,. Educational studies have shown that student reading skills deteriorate when reading is not done over a period oftime.
- Increase fluency and vocabulary skills as new themes and vocabulary are introduced in the selected lessons.
- Developing the correct use of framing sentences and grammar skills.
- Abide by Corona Guidelines
- Stay Home, Stay Safe. !

2. Learning Outcomes of the Holiday Homework:

- Connectivity with the Syllabus
- Increase Creativity and Constructivity
- Exploring Innate Talent
- Acquiring Skills
- Sense of Responsibility
- Importance of Dead Lines
- Sparing time for Extra Curricular Activities
- Mastering Problem-Solving Skills
- Improving Perseverance Levels
- Practice to be Perfect

3. Class-wise, Subject-wise Details for Home work for Vacation :-

Books Prescribed by School:

Expressive English Grammar

First Flight

Footprints Without Feet

4. Syllabus Covered Upto May End

- L-1 to 4, 7 in First Flight
- Poem-1 to 7 in First flight
- L-1 to 5 in Footprints Without Feet
- Grammar: Tenses, Determiners and Modals
- Writing Skills- Letter writing

5. Daily time to be spent for doing H.W per day : 30 Minutes

6. Tools Required For Doing Home Work

- Notebook
- Charts
- Literature book and grammar book
- A4 sheets, pen pencil etc.

7. Project Work: Powerpoint Presentation.

Read any real book or e- book and summarize it in the form of Power Point presentation slides. Slides must be in the following order:

- General information about the book
- Author's description
- Character's description
- Summary of the story
- Moral of the story

Note: You can include different pictures related to the text in the slides. Presentation in form of the paragraph will not be accepted. It must be in points.

(Reading & Writing Skills)

8. Describe the following proverbs in your own words in the form of a paragraph. As

- No gain, without pain
- All's well that ends well

9. Indulge yourself in reading any one book out of these and write review of the book which you read.

- The Chronicles of Narnia – C.S. Lewis

- A Tale of Two Cities – Charles Dickens
- The Goldfish – Donna Tartt
- Pride and Prejudice – Jane Austen

10. **Date of Submission of Home Work: 01 July, 2022**

11. **Sr. No. Checkpoints for Assessments of Home work**

Sr. No.	Checkpoints for Assessments of Home work	Remarks
1	Index	Updated /Not updated
2	Quality of Handwriting presentation	Good /Avg./ Poor
3	Quality of creative writing	Good /Avg./ Poor
4	Quality of Project work	Good /Avg./ Poor
5	Quality of Reading & Comprehension skills	Good /Avg./ Poor
6	Whether Learning work done or not	Done/ Not done
7	Whether H.W is fully Completed	Yes/ No
8	Whether H.W is partly Pending	Yes/ No

12. **Defining the Model Assignment**

Revision assignment has 4 Sections.

Section-A: 4 Reference to the context (4)

Section-B: One letter or Paragraph will be given. (5)

Section-C: Five blanks will be given according to the grammar topics. (5)

Section-D: Questions will be given. (2×3=6)

Note - There will be four assignments.



R.E.D Group of Schools
Revision Assignment (Session - 2022-23)

Day & Date:

Class:

Chapter No.: 1, 2, 3 Poem No. 1, 2, 3

Chapter Name: A Letter to God, Long Walk to Freedom, Two Stories about Flying, Dust of Snow, Fire and Ice, The Thief's Story

Revision Assignment-1

Subject: English

Section-A (Reading)

Q-1 Read the extract given below and answer the questions that follow.

It is from these comrades in the struggle that I learned the meaning of courage. Time and again, I have seen men and women risk their lives for an idea. I have seen men stand up to attacks and torture without breaking, showing a strength and resilience that defies the imagination. I learned that courage was not the absence of fear, but the triumph over it. The brave man is not he who does not feel afraid, but he who conquers that fear.

- a. What did the speaker learn from his comrades?
- b. What does courage mean to the speaker?
- c. Find a word in the above lines which means 'victory'.
- d. Name the lesson and its writer.

Section-B (Writing)

Q-2 Do any one.

a. Write a letter to the editor of a newspaper on the impact of gadgets and gizmos on the life of youngsters who seem to more sold off on them than working adults. Throw some light on the health hazards caused due to these gadgets. You are Vasu/Riya of Jaipur.

or

b. Write a letter to the editor of a national daily about the nuisance caused by stray animals on our roads. You are Riya of C-3, Janakpuri.

Section-C (Grammar)

Q-3 Fill the blanks. (Tenses, Determiners, Modals)

- a. Walk slow lest you _____ slip.
- b. None of them _____ (play) football.
- c. If you need _____ help, you can call me.
- d. If it _____, (rain) we would go hungry.
- e. You _____ respect your parents.

Section-D (Literature)

Q-4 Answer the following questions.

- a. Why did Lencho call the post office employees 'a bunch of crooks'?
- b. What made Hari Singh come back to Anil?
- c. Why did the poet favour fire in the poem in the poem 'Fire and Ice'.



R.E.D. Group of Schools
Revision Assignment (Session - 2022-23)

Day & Date:

Class: 10

Chapter No.: 3, 4, Poem 1, Lesson 1

Chapter Name: Two Stories about Flying, The Diary of Anne Frank, Dust of Snow, A Triumph of Surgery

Revision Assignment- 2

Subject: English

Section-A (Reading)

Q-1 Read the extract given below and answer the questions that follow.

He stepped slowly out to the brink of the ledge, and standing on one leg with the other leg hidden under his wing, he closed one eye, then the other, and pretended to be falling asleep. Still they took no notice of him. He saw his two brothers and his sister lying on the plateau dozing with their heads sunk into their necks. His father was preening the feathers on his white back. Only his mother was looking at him. She was standing on a little high hump on the plateau, her white breast thrust forward.

Now and again, she tore at a piece of fish that lay at her feet and then scrapped each side of her beak on the rock.

- a. Name the lesson and its writer.
- b. Why was the seagull alone?
- c. What were his parents doing?
- d. What did the seagull do to get their attention?

Section-B (Writing)

Q-2 Do any one.

a. Road rage is a common problem in the big cities. People get into fights over flimsy reasons, sometimes leading to fatal outcomes. Draft a letter to the editor of a national daily giving some practical suggestions. You are Sameer/Sameera of 56/3, Sector 6, Rohtak.

or

b. You are Shashi of 34, Punjabi Bagh, Delhi. You bought a washing machine from M/s Anand Electronics, Delhi. Write a letter of complaint about some faults in the washing machine.

Section-C (Grammar)

Q-3 Fill the blanks. (Tenses, Modals, Determiners, Prepositions, Conjunctions)

- a. _____ you mind passing the salt?
- b. I will stand _____ you in difficulty.
- c. _____ he is rich, he is a miser.
- d. _____ Delhi University campus is _____ happening place.
- e. Your condition is not good. You _____ see a doctor immediately.

Section-D (Literature)

Q-4 Answer the following questions.

- a. What is the dust of snow?
- b. Why does Anne want to keep a diary?
- c. What was Tricki's problem?



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Revision Assignment (Session - 2022-23)

Day & Date:

Class:

Chapter No.: Poem 5 Lesson 5

Chapter Name: The Ball Poem, Footprints without Feet

Revision Assignment- 3

Subject: English

Section-A (Reading)

Q-1 Read the extract given below and answer the questions that follow.

What is the boy now, who has lost the ball
 What, what is he to do? I saw it go
 Merrily bouncing, down the street, and then
 Merrily over — there it is in the water!

- a. Why does the poet ask 'What, what is he to do' ?
- b. Why has the poet described the ball's action as merrily?
- c. Name the poetic device used in the stanza.
- d. Name the poem and its poet.

Section-B (Writing)

Q-2 Do any one.

a. Write a letter to the S.H.O. of your locality reporting the theft of a motorcycle. Sign yourself as Ram/Rama of 57, Shivaji Colony, Gurugram.

or

b. Write a letter to the editor of a reputed daily requesting him to highlight the difficulties due to rise in prices. You are Ashok living at 45/6, Sector 34, Jhajjar.

Section-C (Grammar)

Q-3 Fill the blanks. (Sentence Reordering, Conjunctions, Prepositions)

- a. single/is/a/house/a/like/book
- b. are four/of stress/sources/our lives/there/in/common
- c. I am _____ tired as you are.
- d. God made the world _____ man made the country.
- e. The child takes _____ her mother.

Section-D (Literature)

Q-4 Answer the following questions.

- a. Griffin was a lawless person. How?
- b. Give a character sketch of Mrs. Hall
- c. What is the boy learning from the loss of the ball?



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Revision Assignment (Session - 2022-23)

Day & Date:

Class:

Chapter No.: Poem 6, Lesson 3

Chapter Name: Amanda, The Midnight Visitor

Revision Assignment- 4

Subject: English

Section-A (Reading)

Q-1 Read the extract given below and answer the questions that follow.

And as the light came on, Fowler had his first authentic thrill of the day. For halfway across the room, a small automatic pistol in his hand, stood a man.

- Who is the 'man' referred to in the above extract?
- Why did the 'man' have a pistol in his hand?
- What is meant by the phrase 'authentic thrill' in the above extract?
- What is the opposite of 'automatic'?

Section-B (Writing)

Q-2 Do any one.

a. Write a letter to the editor of a newspaper complaining against frequent breakdown of electricity in your locality.

or

b. You are Raj/Simran living at 25/56, Rani Bagh, Delhi. Write a letter to the Postmaster for irregular delivery of letters as the postman on duty is an irresponsible person.

Section-C (Grammar)

Q-3 Fill the blanks. (Tenses, Modals, Determiners, Prepositions, Conjunctions)

- We eat _____ we may live.
- It _____ (rain) for two days. There'll be a flood soon.
- _____ gold of Russia is very precious.
- _____ that I were rich!
- What is the time _____ your watch?

Section-D (Literature)

Q-4 Answer the following questions.

- Is Amanda an orphan? Why does she say so?
- Why did Ausable frame the story of the balcony?
- What impression do you form of Max as a secret agent?



R.E.D. Group of Schools
Summer Holidays Homework (2022-23)

Class: 10th

Subject – Hindi

“सीखना अनवरत चलने वाली प्रक्रिया है। यह एकमात्र ऐसी चीज है जिससे मन कभी थकता नहीं है, और कभी पछताता नहीं है।”

ग्रीष्मकालीन समय बच्चों के लिए खुशी और मनोरंजन का समय होता है। लंबे समय की प्रतीक्षा के पश्चात गर्मी की छुट्टियाँ होने जा रही हैं। यह समय आपको फिर से जीवंत करने और अन्य रुचियों को पूरा करने का अवसर देता है, जिन्हें समय के साथ अच्छे ढंग से पूरा किया जा सकता है। हालांकि, अवकाश और सीखने के बीच संतुलन बनाना महत्वपूर्ण है। इसी को ध्यान में रखते हुए हमने गृहकार्य की रूपरेखा ऐसे तैयार की है जिससे आपके सीखने की क्षमता बढ़े और आपको विषय से संबंधित अवधारणाएँ (Concepts) स्पष्ट हो। ग्रीष्मावकाश गृहकार्य से आपको नई चीजों को सीखने व अपने अंदर छिपी प्रतिभा/कौशल को पहचानने व उसमें वृद्धि करने का अवसर मिलेगा।

1. गृहकार्य के पूरा होने के साथ-साथ अवकाश के दौरान अभ्यास के लिए दिशा-निर्देश :

- पठन व लेखन कौशल में वृद्धि करें।
- कल्पनाशीलता, आत्म-मूल्यांकन, रचनात्मकता और विश्लेषण-कौशल को बढ़ाएँ।
- जैसे-जैसे नए विषय और शब्दावली पाठ में आते हैं, उन्हें समझें व शब्दों का सही उच्चारण करके शब्द भंडार में वृद्धि करें।
- वाक्य-संरचना और व्याकरण-कौशल का सही उपयोग करें।
- ग्रीष्मावकाश गृहकार्य करने हेतु अलग से गतिविधि उत्तर-पुस्तिका लगाएं।
- कार्य स्पष्ट एवं सुंदर लेख सहित हो।
- अधिगम कार्य करते हुए जटिल शब्दों का कम-से-कम पाँच-पाँच बार उच्चारण करें एवं लिखकर देखें।
- मात्राओं के शुद्ध उच्चारण पर बल दें।
- ❖ परियोजना कार्य रंगीन A-4 Sheets पर बनाएं

2. कक्षानुसार, विषयानुसार, ग्रीष्मावकाश गृहकार्य

कक्षा : दसवीं विषय हिन्दी

पाठ्य पुस्तक – क्षितिज भाग-2

पूरक पुस्तक – कृतिका भाग-2

व्याकरण पुस्तक – व्याकरण प्रकाश

3. मई माह तक का पाठ्यक्रम—

- क्षितिज : पाठ—10 — नेता जी का चश्मा
पाठ—11 — बालगोबिन भगत
कविता— 1 सूरदास
कविता—2 राम—लक्ष्मण—परशुराम संवाद
कविता—4 आत्मकथ्य
- कृतिका : पाठ—1 — माता का अँचल
- व्याकरण— अपठित बोध, पत्र, रचना के आधार पर वाक्य के भेद

4. नई अवधारणाएँ (New Concepts)

- कहानी का मूलभाव लिखना।
- पत्र लेखन
- योगासन के महत्व
- सूरदास के पदों का मूलभाव

5. प्रतिदिन गृहकार्य के लिए दिया जाने वाला समय—30 मिनट।

6. ग्रीष्मावकाश गृहकार्य —

- आप अपनी पाठ्य पुस्तक क्षितिज में पाठ 'नेता जी का चश्मा' को पूरा पढ़िए। उसके पश्चात 'देश एवं देशभक्ति' विषय पर अनुच्छेद लेखन कीजिए।
- आप अपनी पाठ्य पुस्तक क्षितिज में से किन्हीं 5 पदों (कविता से संबंधित) को सस्वर गायन हेतु कंठस्थ कीजिए।

➤ सूरदास के प्रत्येक पद में निहित भावार्थ अपने शब्दों में स्पष्ट कीजिए।

➤ कबीरदास के जीवन परिचय व भाषा शैली पर प्रकाश डालिए।

➤ सूरदास की साखियाँ सामाजिक जीवन में किस प्रकार अपना संबंध स्थापित करती हैं?

- हिंदी साहित्य के सुप्रसिद्ध लेखक/लेखिका की निम्नलिखित कहानियों में से किन्हीं 2 कहानियों को पढ़कर उनके भावार्थ को अपने शब्दों में लिखिए।

(क) कफन (प्रेमचंद)

(ख) हींगवाला (सुभद्रा कुमारी चौहान)

(ग) पुरस्कार (जयशंकर प्रसाद)

(घ) पूस की रात (प्रेमचंद)

7. योगासन व उनका महत्व

- किन्हीं 5 योगासनों का चित्र सहित वर्णन करें (करने की विधि, लाभ, सावधानियाँ)
- छात्र स्वयं योगासन करते हुए अपना चित्र भी लगाएं।

8. निम्नलिखित शब्दों से मूल शब्द, उपसर्ग व प्रत्यय अलग—अलग कीजिए।

परिपूर्णता, बेकारी, बददिमागी, प्रतिकूलता, निश्चितता,

निर्दयी, स्वदेशी, अभिमानी, अनुदारता, असफलता

9. क्षितिज व कृतिका के पाठों के शब्दार्थ व प्रश्नोत्तर याद कीजिए।

10. 'माँ' विषय पर एक कविता लिखिए।

11. अभ्यास हेतु पुनरावृत्ति—कार्यपत्र 1 से 4 हल कीजिए।

परियोजना कार्य

पर्यावरण प्रदूषण विषय पर 4-5 शीट पर निम्नलिखित बिंदुओं का प्रयोग करते हुए एक परियोजना कार्य चित्र सहित तैयार कीजिए। जैसे :-

- 'पर्यावरण प्रदूषण': परिचय
- 'पर्यावरण प्रदूषण' से प्रभावित देश-दुनिया का जन-जीवन
- 'पर्यावरण प्रदूषण' के दौरान वृक्षों की भूमिका
- रोकथाम के उपाय

कहाँ करें – रंगीन A-4 Sheets पर

कैसे करें – सुंदर लेख में, अशुद्धियों का ध्यान रखते हुए, चित्रों का प्रयोग करके,

मूल्यांकन बिंदु – विषय-वस्तु, प्रस्तुतिकरण, आकर्षक चित्र, परिष्कृत व परिमार्जित लेख।

● गृहकार्य पूर्ति हेतु आवश्यक सामग्री

- गतिविधि उत्तर पुस्तिका
- रंगीन A-4 Sheets
- NCERT Books

12. गृहकार्य जमा करवाने की तिथि :- 1 जुलाई, 2022

13. गृहकार्य – मूल्यांकन हेतु जाँच बिंदु :-

क्रमांक	गृहकार्य – मूल्यांकन हेतु जाँच बिंदु	टिप्पणी
1.	अनुक्रमणिका पृष्ठ	पूर्ण है / पूर्ण नहीं है
2.	लिखावट प्रस्तुति की गुणवत्ता।	अच्छी है / सामान्य है / खराब है
3.	रचनात्मक लेखन की गुणवत्ता।	अच्छी है / सामान्य है / खराब है
4.	पढ़ने और समझने के कौशल की गुणवत्ता।	अच्छी है / सामान्य है / खराब है
5.	परियोजना कार्य की गुणवत्ता	अच्छी है / सामान्य है / खराब है
6.	याद करने का कार्य	पूर्ण है / पूर्ण नहीं है
7.	गृहकार्य पूर्ण है अथवा नहीं।	पूर्ण है / पूर्ण नहीं है



R.E.D. GROUP OF SCHOOLS

Revision Assignment - 1

Subject – Hindi

Class: 10th

Time Limit: 01 hour

MM: 30

दिशा-निर्देश

❖ पुनरावृत्ति कार्यपत्र में 6 प्रश्न हैं

● **खंड-क**

5 बहुविकल्पी प्रश्न (प्रत्येक का 1 अंक – 5 अंक)

● **खंड-ख व्याकरण**

7 बहुविकल्पी प्रश्न (प्रत्येक का 1 अंक – 7 अंक)

● **खंड-ग**

i) पठित पाठ के आधार पर 25–30 शब्दों में 4 प्रश्न (प्रत्येक का 2 अंक – 8 अंक)

ii) पठित पाठ से चयनित 5 शब्दावली (प्रत्येक का 1 अंक – 5 अंक)

● **खंड-घ सृजनात्मक और रचनात्मक लेखन (5 अंक)**

Revision Assignment for Holidays Homework

खंड-‘क’ (अपठित बोध)

प्रश्न-1 निम्नलिखित गद्यांश को पढ़कर पूछे गए प्रश्नों के उत्तर के लिए सही विकल्प चुनिए।

(5)

भारतीय त्योहारों का जो पहलू उन्हें कारोबार से जुड़ता है कि वह पकवानों-मिठाइयों से उनका नाता है। हर त्योहार पर खास किस्म की मिठाइयां और लजीज पकवान परोसना जरूरी माना जाता है। वो पहले ज्यादातर ऐसे मिठाईयां घरों में बनाते थे लेकिन आज लोग इसके लिए बाजारों पर आश्रित हैं। एक दौर था जब बाजार की बनी मिठाई स्वाद के साथ शुद्धता में भी घर पर बनी मिठाई के करीब होती थी लेकिन अब इसकी गारंटी कम ही ली जा सकती है। अब तो इस बात का अधिक खतरा रहता है कि कहीं इनमें मिलावट न की गई हो। दाल, अनाज, दूध, दही आदि से लेकर सब्जी और फल तक कोई भी चीज मिलावट से अछूती नहीं है। दीपावली जैसे त्योहारों के मौके पर हर शहर से मिलावटी खोया, पनीर व नकली मिठाइयों की धरपकड़ की खबरें आती हैं। मिठाइयों में मिलावट का सिलसिला नकली वह सिंथेटिक दूध से शुरू होता है। बेईमान लोग दूध के नाम पर यूरिया,

सोडा, पोस्टर कलर, रिफाइंड तेल से बने मिक्सर लोगों को पिलाते हैं। इसी साल उत्तर प्रदेश में जाँच से यह आंकड़ा सामने आया है कि राज्य की 25 प्रतिशत लोग घटिया मिलावटी दूध पी रहे हैं। दूसरे राज्यों में भी बेहतर नहीं हैं। असल में खाने पीने की वस्तुओं में मिलावट इतनी बारिकी से की जाती है कि असली-नकली की पहचान करना आसान नहीं है। नकली पकवानों से सबसे अधिक खतरा हमारी सेहत को है। चिकित्सक आगाह करते हैं कि मिलावटी मिठाई खाने से उल्टी, पेट दर्द व गैस की समस्याएँ होना आम बात है।

(i) त्योहारों का विशेष नाता किससे होता है ?

क) मिठाई

ख) पानी

ग) समस्या

घ) सेहत

(ii) गद्यांश का उचित शीर्षक दीजिए ।

क) मिठाई

ख) कारोबार

ग) त्योहारों पर मिलावट

घ) त्योहार

- (iii) आज कल मिलावटी मिठाइयों से किस बात का खतरा बना रहता है?
 क) मिलावट ख) सेहत ग) त्योहारों पर मिलावट घ) क और ख
- (iv) मिलावटी मिठाइयों को बनाने के पीछे क्या उद्देश्य रहता है?
 क) लालच ख) मुनाफा ग) समाज कल्याण घ) क और ख
- (v) 'बेईमान' में प्रयुक्त उपसर्ग बताइए।
 क) बे ख) बेई ग) मान घ) इनमें से कोई नहीं

खंड-ख (व्याकरण)

प्र०-2 निम्नलिखित प्रश्नों के उत्तर के लिए सही विकल्प चुनिए। (1×7 = 7)

- (i) आश्रित उपवाक्य के कितने भेद होते हैं?
 क) 2 ख) 3 ग) 4 घ) 5
- (ii) वाक्य के भेद लिखें।
 क) सरल ख) संयुक्त ग) मिश्रित घ) उपर्युक्त सभी
- (iii) रचना के आधार पर वाक्य के कितने भेद हैं?
 क) 2 ख) 3 ग) 4 घ) 5
- (iv) 'दुष्कर' शब्द में कौन-सा मूल शब्द है ?
 क) दु ख) दुर् ग) दुष घ) दुह
- (v) 'राजा ने भिखारी को भोजन दिया।' रचना की दृष्टि से वाक्य का कौन-सा भेद है? क) सरल
 ख) संयुक्त ग) मिश्र घ) कोई नहीं
- (vi) आश्रित उपवाक्य के भेद हैं?
 क) संज्ञा ख) विशेषण ग) क्रिया-विशेषण घ) उपर्युक्त सभी
- (vii) राम ने कहा कि मुझे फल चाहिए। आश्रित उपवाक्य का भेद बताइए।
 क) संज्ञा ख) विशेषण ग) क्रिया-विशेषण घ) उपर्युक्त सभी

खंड-ग (पाठ्य पुस्तक)

प्र०-3 निम्नलिखित प्रश्नों के उत्तर दीजिए। (2×4 = 8)

- क) पानवाले का रेखाचित्र अपने शब्दों में लिखिए।
 ख) देशभक्ति की भावना हर नागरिक में क्यों होनी चाहिए?
 ग) सूरदास ने गोपियों के बारे में क्या बताया?
 घ) 1930 के दशक में वो कौन-से खेल होते थे जो आज के समय में नहीं खेले जाते हैं?

प्र०-4 निम्नलिखित शब्दों के अर्थ लिखिए। (1×5 = 5)

- क) विभाव -
 ख) लाट -
 ग) नगरपालिका -
 घ) आध्यात्मिक
 ङ) बड़भागी -

खंड-घ (रचनात्मक लेखन)

प्र०-5 अपने क्षेत्र में बिजली के खंबों पर लटकती अतिरिक्त तारों की ओर ध्यान आकर्षित करते हुए बिजली विभाग के प्रमुख अधिकारी को पत्र लिखिए। (5)



R.E.D. GROUP OF SCHOOLS

Revision Assignment - 2

Subject – Hindi

Class: 10th

Time Limit: 01 hour

MM: 30

Revision Assignment for Holidays Homework

खंड-‘क’ (अपठित बोध)

प्रश्न-1 निम्नलिखित गद्यांश को पढ़कर पूछे गए प्रश्नों के उत्तर के लिए सही विकल्प चुनिए। (5)

हमारे देश में जातिवाद सबसे जटिल समस्या है। यह समस्या स्वस्थ राष्ट्रीयता के पनपने में बहुत बड़ा बाधक तत्व है। कहना कठिन है कि जाति प्रथा देश में कब जन्मी। इतिहासकार यह मानते हैं कि जब आर्य भारतवर्ष में आए, उस समय उनका सम्मिलन यहाँ के देशवासियों से हुआ। इस तरह आरंभ में दो ही सांस्कृतिक समूह थे—आर्य और अनार्य। यह भेद जाति का और संस्कृति का था। जो केवल आर्यों और अनार्यों तक ही सीमित नहीं रहा अपितु धीरे-धीरे आर्यों में भी भेद होने लगा और चार जातियों का प्रादुर्भाव हुआ। यह जाति व्यवस्था व्यवसाय पर आधारित थी, न कि जन्म पर। कालांतर में जाति प्रथा जन्म व वंश से संबंधित हो गई है। हमारे संविधान के निर्माता यह जानते थे कि जाति प्रथा और लोकतंत्र एक साथ नहीं रह सकते हैं। उन्होंने संविधान में इस तरह के नियम बनाए जिनके द्वारा किसी भी नागरिक के विरुद्ध जाति के आधार पर भेदभाव या पक्षपात न हो सके। यह स्थिति दुखद है कि जातिवाद के अनुसार सभी जातियों के व्यवसाय पूर्व निर्धारित होने हैं। इस प्रकार की व्यवस्था सामाजिक न्याय के विपरित है। जो भी राष्ट्र का हित चाहते हैं, वो जातिवाद का उटकर मुकाबला करें उसके उन्मूलन में सहयोग दें।

प्रश्न—

1. आज देश में सबसे जटिल समस्या क्या बनी हुई है ?

(क) राष्ट्रीयता

(ख) जातिवाद

(ग) पक्षपात

(घ) संस्कृति

2. भारत में आरंभ से ही कौन-कौन से सांस्कृतिक समूह थे ?

(क) आर्य और अनार्य

(ख) आर्य और भारतीय

(ग) भारतीय और विदेशी

(घ) अनार्य और विदेशी

3. आज जाति प्रथा समाज के लिए बाधक कैसे है ?

(क) समाज में समानता लाने में

(ख) लोकतंत्र स्थापित करने में

(ग) स्वस्थ राष्ट्रीयता के पनपने में

(घ) स्वतंत्रता स्थापित करने में

4. आज की बजाए आरंभ में जाति संबंधित नियम कैसे थे?

(क) जन्म पर आधारित

(ख) व्यवसाय पर आधारित

(ग) वंश से संबंधित

(घ) स्थान से संबंधित

5. आप इस गद्यांश का शीर्षक क्या देना चाहेंगे?

(क) भ्रष्टाचार

(ख) आदमी और समाज

(ग) जातिप्रथा

(घ) आध्यात्मिकता

खंड-ख (व्याकरण)

प्रश्न-2 निम्नलिखित प्रश्नों के उत्तर के लिए सही विकल्प चुनिए।

(1×7 = 7)

(i) रवि खाना खाकर स्कूल चला गया।

क) सरल

ख) संयुक्त

ग) मिश्रित

घ) उपर्युक्त सभी



R.E.D. GROUP OF SCHOOLS

Revision Assignment - 3

Subject – Hindi

Class: 10th

Time Limit: 01 hour

MM: 30

Revision Assignment for Holidays Homework

खंड—'क' (अपठित बोध)

प्रश्न-1 निम्नलिखित गद्यांश को पढ़कर पूछे गए प्रश्नों के उत्तर के लिए सही विकल्प चुनिए। (5)

डॉ. कलाम दृढ़ इच्छाशक्ति वाले वैज्ञानिक थे। वे भारत को विकसित देश बनाने का सपना संजोए हुए थे। उनका मानना था कि भारतवासियों को व्यापक दृष्टि से सोचना चाहिए। हमें सपने देखने चाहिए। सपनों को विचारों में बदलना चाहिए। विचारों को कार्यवाही के माध्यम से हकीकत में बदलना चाहिए। डॉ. कलाम तीसरे ऐसे वैज्ञानिक हैं, जिन्हें भारत का सर्वोच्च सम्मान 'भारत रत्न' दिया गया। उन्हें 'पद्मभूषण' तथा 'पद्मविभूषण' से भी सम्मानित किया गया। भारत को उन पर गर्व है। इतनी उपलब्धियाँ प्राप्त करने के बावजूद अहंकार कलाम जी को छू तक नहीं पाया। वे सहज स्वभाव के एक भावुक व्यक्ति थे। उन्हें कविताएँ लिखना, वीणा बजाना तथा बच्चों के साथ रहना पसंद था। वे सादा जीवन उच्च विचार में विश्वास रखते थे। कलाम साहब का जीवन हम सभी के लिए प्रेरणादायक है। कलाम जी तपस्या और कर्मठता की प्रतिमूर्ति हैं। राष्ट्रपति पद की शपथ लेते समय दिए गए भाषण में उन्होंने कबीरदास जी के इस दोहे का उल्लेख किया था—“काल करे सो आज कर, आज करे सो अब”।

प्रश्न-1. डॉ. कलाम ने भारत को क्या बनाने का सपना देखा है?

(क) अल्प विकसित देश

(ख) विकसित देश

(ग) निर्मित देश

(घ) विकासशील देश

प्रश्न- 2. डॉ. कलाम किस प्रवृत्ति के व्यक्ति थे?

(क) असहज

(ख) दयालु

(ग) भावुक

(घ) क्रूर

प्रश्न- 3. डॉ. कलाम एक दृढ़ इच्छाशक्ति वाले _____ थे?

(क) वैज्ञानिक

(ख) कलाकार

(ग) साहित्यकार

(घ) इनमें से कोई नहीं

प्रश्न- 4. डॉ. कलाम को क्या- क्या बेहद पसंद था?

(क) कविताएँ लिखना

(ख) वीणा बजाना

(ग) बच्चों के साथ रहना

(घ) उपर्युक्त सभी

प्रश्न- 5. —“काल करे सो आज कर, आज करे सो अब” पंक्ति में कौन-सा अलंकार है?

(क) उत्प्रेक्षा

(ख) अनुप्रास

(ग) रूपक

(घ) मानवीकरण

खंड—ख (व्याकरण)

प्रश्न-2 निम्नलिखित प्रश्नों के उत्तर के लिए सही विकल्प चुनिए।

(1×7 = 7)

(i) सुबह होते ही चिड़िया चहचहाने लगी। वाक्य भेद बताइए।

(क) सरल

(ख) संयुक्त

(ग) मिश्रित

(घ) कोई नहीं

(ii) रोहन बीमार है इसलिए स्कूल नहीं गया। वाक्य भेद बताइए।

(क) सरल

(ख) संयुक्त

(ग) मिश्रित

(घ) कोई नहीं

- (iii) 'राधा घर आकर खाना बनाने लगी। रचना की दृष्टि से वाक्य का कौन-सा भेद है?
 क) सरल वाक्य ख) संयुक्त वाक्य ग) मिश्र वाक्य घ) इनमें से कोई नहीं
- (iv) 'आज मैं घर जाऊँगा परंतु काम नहीं करूँगा। रचना की दृष्टि से वाक्य का कौन-सा भेद है?
 क) सरल वाक्य ख) संयुक्त वाक्य ग) मिश्र वाक्य घ) कोई नहीं
- (v) 'जो बच्चा पीछे बैठा है वह शरारती है'। वाक्य में कौन-सा उपवाक्य है?
 क) संज्ञा ख) विशेषण ग) क्रियाविशेषण घ) कोई नहीं
- (vi) जब वर्षा होती है तब मोर नाचने लगते हैं। वाक्य का भेद बताइए।
 क) सरल वाक्य ख) संयुक्त वाक्य ग) मिश्र वाक्य घ) कोई नहीं
- (vii) राम ने कहा कि वह निर्दोष है। वाक्य भेद बताइए।
 क) सरल वाक्य ख) संयुक्त वाक्य ग) मिश्र वाक्य घ) कोई नहीं

खंड-ग (पाठ्य पुस्तक)

- प्र०-3 निम्नलिखित प्रश्नों के उत्तर दीजिए। (2×4 = 8)
 क) किसी भी चौराहे पर किसी नेता की मूर्ति क्यों लगाई जाती है?
 ख) आत्मकथ्य के आधार पर जयशंकर प्रसाद की विशेषताएँ बताइए।
 ग) गोपियों ने एक राजा के कौन-कौन से गुण बताए हैं?
 घ) राम-लक्ष्मण-परशुराम संवाद के आधार पर लक्ष्मण के व्यक्तित्व के गुणों को लिखिए।
- प्र०-4 निम्नलिखित शब्दों के अर्थ लिखिए। (1×5 = 5)
 क) अनुराग -
 ख) लोही लगना -
 ग) रोपनी -
 घ) कलेवा -
 ङ) त्रिपुरारी -

खंड-घ (रचनात्मक लेखन)

- प्र०-5 व्यायाम के महत्त्व पर प्रकाश डालते हुए अनुच्छेद रचना कीजिए। (5)



R.E.D. GROUP OF SCHOOLS

Revision Assignment - 4

Subject – Hindi

Class: 10th

Time Limit: 01 hour

MM: 30

Revision Assignment for Holidays Homework

खंड-‘क’ (अपठित बोध)

प्रश्न-1 निम्नलिखित गद्यांश को पढ़कर पूछे गए प्रश्नों के उत्तर के लिए सही विकल्प चुनिए। (5)

आज के युग में समाचार-पत्र मनुष्य की दिनचर्या का आवश्यक अंग बन गया है। प्रातःकाल से ही मनुष्य को इसका इंतजार रहता है। समाज की उन्नति में इसका अहम योगदान रहा है। हमारे आस-पास व देश-विदेश की घटनाओं की जानकारी समाचार-पत्रों से ही मिलती है। समाचार-पत्र का प्रारंभ कलकत्ता से आरंभ हुआ। पूर्व में समाचार-पत्र का प्रयोग सैनिकों द्वारा सूचना देने के लिए किया जाता था। हमें हर प्रकार की जानकारी इससे ही मिलती है। शिक्षा, खेल, मनोरंजन, साहित्य आदि की प्रमुख खबरें दैनिक समाचार-पत्र में ही प्रकाशित होती हैं। हर देश में भिन्न भाषाओं में इसका प्रकाशन होता है। दैनिक समाचार-पत्र के अलावा मासिक, साप्ताहिक व पाक्षिक पत्र-पत्रिकाओं का प्रकाशन होता है। हमें समाचार पत्र से घर बैठे देश-विदेश की गतिविधियों का पता चल जाता है। समाचार पत्र के लेख, खबरों आदि का समाज की उन्नति में विशिष्ट योगदान रहा है। इसका क्षेत्र काफी बढ़ गया है। समाचार-पत्र संचार के साधनों में महत्वपूर्ण स्थान रखते हैं। समाचार-पत्र हमें देश-विदेश से परिचित करवाता है। समाचार-पत्र के अलावा हमें टी.वी.इंटरनेट पर भी खबरों से रू-ब-रू होने की सुविधा है। ये अन्याय के खिलाफ हमेशा तत्पर रहते हैं। पहले इतने साधन नहीं थे, लेकिन अब इन संचार माध्यमों के कारण हमें नई-नई ज्ञान की बातें भी मिलती हैं। कुल मिलाकर समाचार-पत्र हमारे लिए ज्ञान का सशक्त माध्यम है।

(i). आज मानव की दिनचर्या का आवश्यक अंग क्या बन गया है?

(क) दूरदर्शन

(ख) समाचार-पत्र

(ग) खेलकूद

(घ) उपर्युक्त सभी

(ii). सबसे पहले समाचार-पत्रों का प्रयोग किसके लिए किया जाता था?

(क) शिक्षा के लिए

(ख) दुश्मनों के लिए

(ग) सैनिकों के लिए

(घ) दस्तावेजों के लिए

(iii). 'साप्ताहिक' शब्द का अर्थ है-

(क) दिन में होने वाला

(ख) सप्ताह में हाने वाला

(ग) पंद्रह दिन में होने वाला

(घ) मास में होने वाला

(iv). समाचार-पत्र किस माध्यम के अंतर्गत आता है?

(क) श्रव्य माध्यम

(ख) दृश्य माध्यम

(ग) प्रिंट माध्यम

(घ) इनमें से कोई नहीं

(v). समाचार-पत्र का प्रारंभ कहाँ से हुआ?

(क) मुंबई

(ख) बनारस

(ग) कलकत्ता

(घ) दिल्ली

खंड-ख (व्याकरण)

प्र०-2 निम्नलिखित प्रश्नों के उत्तर के लिए सही विकल्प चुनिए।

(1×7 = 7)

(i) वाक्य के कितने अंग होते हैं।

क) 3

ख) 4

ग) 5

घ) 6

- (ii) महेश ने परिश्रम किया परंतु सफल नहीं हुआ। वाक्य भेद बताइए।
क) सरल ख) संयुक्त ग) मिश्र घ) तीनों
- (iii) 'राम अखबार पढ़ रहा है।' इस वाक्य में रेखांकित अंश क्या होगा?
क) उद्देश्य ख) विधेय ग) उपवाक्य घ) इनमें से कोई नहीं
- (iv) 'माता जी ने कहा कि बाजार से सब्जी लेते आना।' इस वाक्य में कौन सा उपवाक्य है?
क) संज्ञा ख) विशेषण ग) क्रियाविशेषण घ) इनमें से कोई नहीं
- (v) 'मैं बीमार था इसलिए डॉक्टर के पास गया।' रचना की दृष्टि से वाक्य का कौन-सा भेद है?
क) सरल ख) संयुक्त ग) मिश्र घ) कोई नहीं
- (vi) वह ज्यों ही स्टेशन पर पहुँचा त्यों ही गाड़ी निकल गई। वाक्य भेद बताइए।
क) सरल ख) संयुक्त ग) मिश्र घ) तीनों
- (vii) जब तक डॉक्टर पहुँचता तब तक मरीज मर चुका था। वाक्य भेद बताइए।
क) सरल ख) संयुक्त ग) मिश्र घ) तीनों

खंड-ग (पाठ्य पुस्तक)

प्र०-3 निम्नलिखित प्रश्नों के उत्तर दीजिए।

(2×4 = 8)

- क) नेता जी की मूर्ति पर लगा सरकंडे का चश्मा क्या उम्मीद जगाता है?
ख) कवि आत्मकथा लिखने से क्यों बचना चाहता है?
ग) गोपियों की वाक्चातुर्य की विशेषताओं का वर्णन करें।
घ) लक्ष्मण ने धनुष टूटने के क्या कारण बताएँ।

प्र०-4 निम्नलिखित शब्दों के अर्थ लिखिए।

(1×5 = 5)

- क) नजाकत -
ख) ठो नगरपालिका -
ग) निर्गुण -
घ) मठ -
ङ) पुरइनि -

खंड-घ (रचनात्मक लेखन)

प्र०-5 'परीक्षा का महत्त्व' विषय पर अनुच्छेद रचना कीजिए

(5)



R.E.D. Group of Schools

Summer Holidays Homework (2022-23)

Subject – MATHS

Text Book: NCERT

Part-I

Vision & Guidelines for Vacation Home work

Dear Students

Learning is the beginning of wealth.

Learning is the beginning of health.

Learning is the beginning of spirituality.

Searching and learning is where the miracle process all begins.

Holiday is the time that we all eagerly wait for. We all make plans to enjoy, to relax and to empower ourselves during these gala days. This summer vacation the Holiday Homework so designed by the mentors of the school is a medium for you all to achieve the motto of “Fun and Learn”

The activity based assignments will foster curiosity, develop creativity, enhance knowledge and instill the joy of learning among you all. They will certainly help you discover a new you who is more enriched and confident and performs every action to perfection.

As it is well recognized that R.E.D. Group of Schools not only focuses on academics but lay equal importance on Co-scholastic Competencies. The school also desires you to adhere to the following guidelines for a fulfilling break:

1. Guidelines for practice during vacation along with completion of Home Assignment:

- ❖ Apply the knowledge and skills acquired to solve mathematical problems in day today life and wherever possible, by more than one method.
- ❖ Neatness and presentation are common parameters for most of the activities assigned. Please maintain the quality of work done.
- ❖ Complete and submit the holiday homework timely.
- ❖ Holiday homework will be assessed on certain parameters and marks/grade will be awarded accordingly.
- ❖ Make sure that all syllabus done till May must be revised thoroughly as your Pre-Mid exam will start from July.
- ❖ To score well in your upcoming exams strike a balance between your leisure time and studies.
- ❖ Read NCERT chapters thoroughly and increase fluency and vocabulary skills as new themes and vocabulary are introduced in the selected lessons.
- ❖ Enhance enquiry intelligence, prediction artistry, measuring art, observation techniques. Educational studies have shown that student reading skills deteriorate when reading is not done over a period of time.
- ❖ Refer different reference books for strengthening the conceptual knowledge.
- ❖ Highlight areas of doubt and clarify with the teacher after vacation.
- ❖ Abide by Corona Guidelines
- ❖ Stay Home, Stay Safe. !
- ❖ **Daily time to be spent for doing H.W per day : 30 Minutes**
- ❖ **Date of submission of HW :1ST July, 2022**

2. SYLLABUS COVERED UPTO 31st MAY

- ❖ Chapter-1- Real Numbers.
- ❖ Chapter-2- Polynomials.
- ❖ Chapter-3- Pair of linear equations in two variables.
- ❖ Chapter-6 – Triangles.
- ❖ Chapter-7 – Coordinate Geometry.
- ❖ Chapter-4 Quadratic Equations.

3. LIST OF ALL NEW CONCEPTS TAUGHT SO FAR

- Number Systems
- The Fundamental Theorem of Arithmetic
- Division of integers
- Revisiting Irrational Numbers
- Revisiting Rational Numbers and Their Decimal Expansions
- Geometrical Meaning of the Zeroes of a Polynomial
- Relationship between Zeroes and Coefficients of a Polynomial
- Division Algorithm for Polynomials
- Pair of Linear Equations in Two Variables
- Graphical Method of Solution of a Pair of Linear Equations
- Algebraic Methods of Solving a Pair of Linear Equations
- Substitution Method
- Elimination Method
- Cross-Multiplication Method
- Equations Reducible to a Pair of Linear Equations in Two Variables
- Similar Figures
- Criteria for Similarity of Triangles
- Distance Formula
- Section Formula
- Quadratic Equations
- Solution of a Quadratic Equation by Factorisation
- Quadratic Formula

4. CHECKPOINTS FOR ASSESSMENTS OF HOME WORK

Sr. No.	Checkpoints for Assessments of Home work	Remarks
1	Index	Updated /Not updated
2	Quality of Handwriting presentation	Good /Avg./ Poor
3	Quality of creative writing	Good /Avg./ Poor
4	Quality of Project work	Good /Avg./ Poor
5	Quality of Reading &Comprehension skills	Good /Avg./ Poor
6	Whether Learning work done or not	Done/ Not done
7	Whether H.W is fully Completed	Yes/ No
8	Whether H.W is partly Pending	Yes/ No

5. RESOURCES & TOOLS REQUIRED FOR DOING HOME WORK

- NCERT BOOK
- Notebook
- A4 Sheets
- Internet
- Card board
- Video links

Chapter No.	Chapter Name	Topic Name	Video Link
1	Real Numbers	Number Systems The Fundamental Theorem of Arithmetic Division of integers Revisiting Irrational Numbers Revisiting Rational Numbers and Their Decimal Expansions	https://youtu.be/eUfBUKKEDcM https://youtu.be/SbWuByKPE4U https://youtu.be/aun8fica7tw https://youtu.be/zdTvVVIS2Qo https://youtu.be/kc-lclIOpnU https://youtu.be/JUirwqTD2VI
2	Polynomials	Geometrical Meaning of the Zeroes of a Polynomial Relationship between Zeroes and Coefficients of a Polynomial Division Algorithm for Polynomials	https://youtu.be/xTjQiIMJVW8 https://youtu.be/XuD_CMWpDhA https://youtu.be/9EUQR3PTqaA https://youtu.be/xlEWzXo14CQ https://youtu.be/ByzJiWyi7Mc https://youtu.be/1nUASpOOBJM https://youtu.be/LBXlwdXQn_4 https://youtu.be/p09JbMjTexA https://youtu.be/86qpXkeXdqA
3	Pair of linear equation in two variables	Pair of Linear Equations in Two Variables Graphical Method of Solution of a Pair of Linear Equations Algebraic Methods of Solving a Pair of Linear Equations Substitution Method Elimination Method Cross-Multiplication Method Equations Reducible to a Pair of Linear Equations in Two Variables	https://youtu.be/t8nhtl7pzpU https://youtu.be/pNvX6QFkTbU https://youtu.be/PZwwjR06kWQ https://youtu.be/WgiJzEmm5al https://youtu.be/-2SuGjm1kYI https://youtu.be/ozLqFz2RAr0 https://youtu.be/mRI6Nqs0bvW
4	Triangles	Similar Figures Similarity of Triangles Criteria for Similarity of Triangles	https://youtu.be/dquwbeqaT34 https://youtu.be/Bpbswbl8riA https://youtu.be/5avZ_EclXgl https://youtu.be/5avZ_EclXgl https://youtu.be/5avZ_EclXgl https://youtu.be/VI8ndEULRol https://youtu.be/VI8ndEULRol

5	Coordinate Geometry	Distance Formula Section Formula	https://youtu.be/CBXUvPSv1oA https://youtu.be/CBXUvPSv1oA https://youtu.be/Hisg8VEC_Bc https://youtu.be/mC1bXwPEokM
6	Quadratic Equations	Quadratic Equations Solution of a Quadratic Equation by Factorisation Quadratic Formula	https://youtu.be/MADl370UFPg https://youtu.be/SMEzFWQojR4 https://youtu.be/SMEzFWQojR4 https://youtu.be/XVWXbaXw8q8

Part-2

Homework

INSTRUCTIONS / GUIDELINES FOR SOLVING SECTION-WISE ASSIGNMENTS

Section-A- Creative corner (Preparing teaching aid, activity wise)

Creative corner

1. Fun time

- **What to do:- Make a Chart on Real Number System.**
- **Where to do:** Chart Paper with different colours.
- **Parameters:** Originality, Presentation and Creativity.

2. Mathematical Greetings:

What to do:- Make a colourful A4 sheet on the following topic

- Properties of Real Numbers.
- Different types of Numbers.
- Vocabulary related to lines and angles.
- Where to do: - Paste in Maths Project File

3. Let's Explore The Real World.

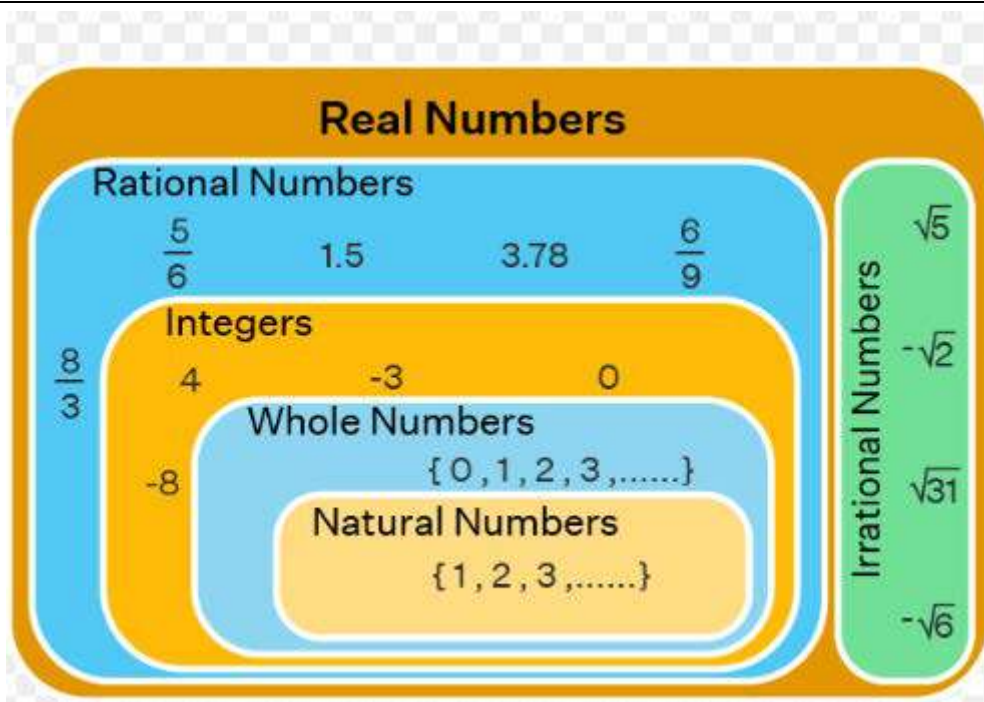
What to do:- Help your mother to purchase grocery from nearby Grocery Shop.

Purchase few items from there and paste the bill received.

Verify the bill amount by doing the manual calculations.

Click photos of your visit and also paste them.

Where to do:- Maths Project File Parameters: Neatness, Presentation.



(To make your project creative view above pic)

Section-B- Crossword/puzzle (Chapter wise)

Puzzle/Crossword (Chapter wise)

PUZZLE FROM "NCERT BOOK any one chapter"

Consider the quadratic polynomial $x^2 - 3x - 4$. Let us see what the graph* of $y = x^2 - 3x - 4$ looks like. Let us list a few values of $y = x^2 - 3x - 4$ corresponding to a few values for x as given in Table 2.1.

Table 2.1

x	-2	-1	0	1	2	3	4	5
$y = x^2 - 3x - 4$	6	0	-4	-6	-6	-4	0	6

If we locate the points listed above on a graph paper and draw the graph, it will actually look like the one given in Fig. 2.2.

In fact, for any quadratic polynomial $ax^2 + bx + c$, $a \neq 0$, the graph of the corresponding equation $y = ax^2 + bx + c$ has one of the two shapes either open upwards like \cup or open downwards like \cap depending on whether $a > 0$ or $a < 0$. (These curves are called **parabolas**.)

You can see from Table 2.1 that -1 and 4 are zeroes of the quadratic polynomial. Also note from Fig. 2.2 that -1 and 4 are the x -coordinates of the points where the graph of $y = x^2 - 3x - 4$ intersects the x -axis. Thus, the zeroes of the quadratic polynomial $x^2 - 3x - 4$ are x -coordinates of the points where the graph of $y = x^2 - 3x - 4$ intersects the x -axis.

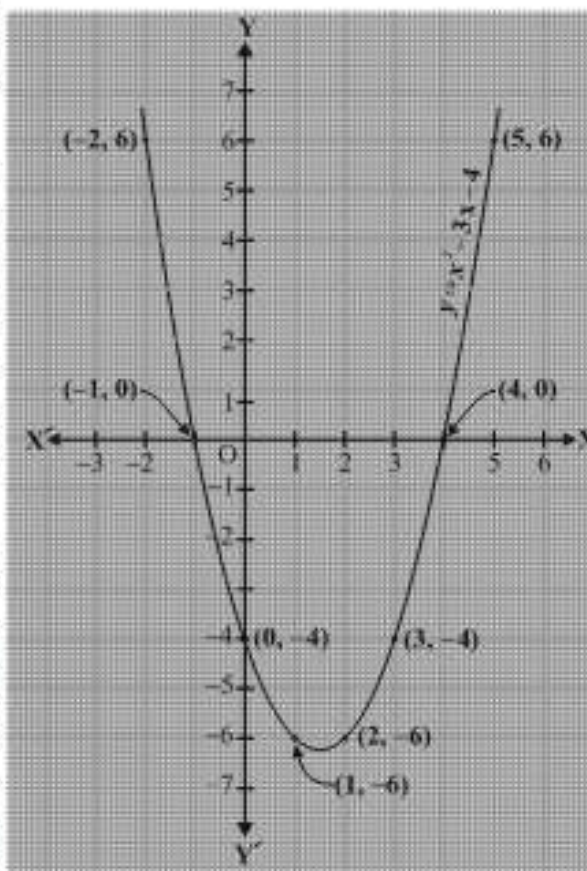


Fig. 2.2

This fact is true for any quadratic polynomial, i.e., the zeroes of a quadratic polynomial $ax^2 + bx + c$, $a \neq 0$, are precisely the x -coordinates of the points where the parabola representing $y = ax^2 + bx + c$ intersects the x -axis.

From our observation earlier about the shape of the graph of $y = ax^2 + bx + c$, the following three cases can happen:

On the basis of above activity draw the graph of $y = x^2 - 9$.

Section-C- Problem solving based projects (One project)

Problem solving based Project (Any One project).

4. Knowing More About Similarity and Congruence:

• **How to do:-** Collect the different type of 2D shapes from your surrounding and write their names.

- ✓ How many shapes are congruent ?
- ✓ How many shapes are similar ?
- ✓ How many shapes are neither similar nor congruent ?
- ✓ What is the difference between the congruent and Similar shapes ?

• **Where to do :** Maths Practice Notebook.

• **Parameters** : Accuracy, Neatness, Originality

OR

❖ Make a project on A4 sheet: **Coordinate geometry.**

OR

❖ Make a project on A4 sheet: **History on any one topic (Trigonometry, Real Numbers.) in maths.**

Section-D- Discovery about Number system

Discovery about Linear Equations (Enhance your knowledge using internet)

A pair of linear equations which has no solution, is called an inconsistent pair of linear equations. A pair of linear equations in two variables, which has a solution, is called a consistent pair of linear equations. A pair of linear equations which are equivalent has infinitely many distinct common solutions. Such a pair is called a dependent pair of linear equations in two variables. Note that a dependent pair of linear equations is always consistent

We can now summarise the behaviour of lines representing a pair of linear equations in two variables and the existence of solutions as follows

- (1) the lines may intersect in a single point. In this case, the pair of equations has a unique solution (consistent pair of equations).
- (2) the lines may be parallel. In this case, the equations have no solution (inconsistent pair of equations).
- (3) the lines may be coincident. In this case, the equations have infinitely many solutions [dependent (consistent) pair of equations].

(i) $x - 2y = 0$ and $3x + 4y - 20 = 0$

(ii) $2x + 3y - 9 = 0$ and $4x + 6y - 18 = 0$

(iii) $x + 2y - 4 = 0$ and $2x + 4y - 12 = 0$

Section-E- Chapter wise revision assignment



Part -3-Revision Assignment-1

R.E.D Group of Schools Revision Assignment for Holiday Homework

Day & Date: _____

Class: 10th

Chapter No.: 1

Chapter Name: Real Numbers

Revision Assignment : 1

Subject: Maths

For recapitulation & solving the assignment the students should refer to their Ch.1 of NCERT text book of Maths.

Section-I: Case Study

$$72 = 2 \times 2 \times 2 \times 3 \times 3$$

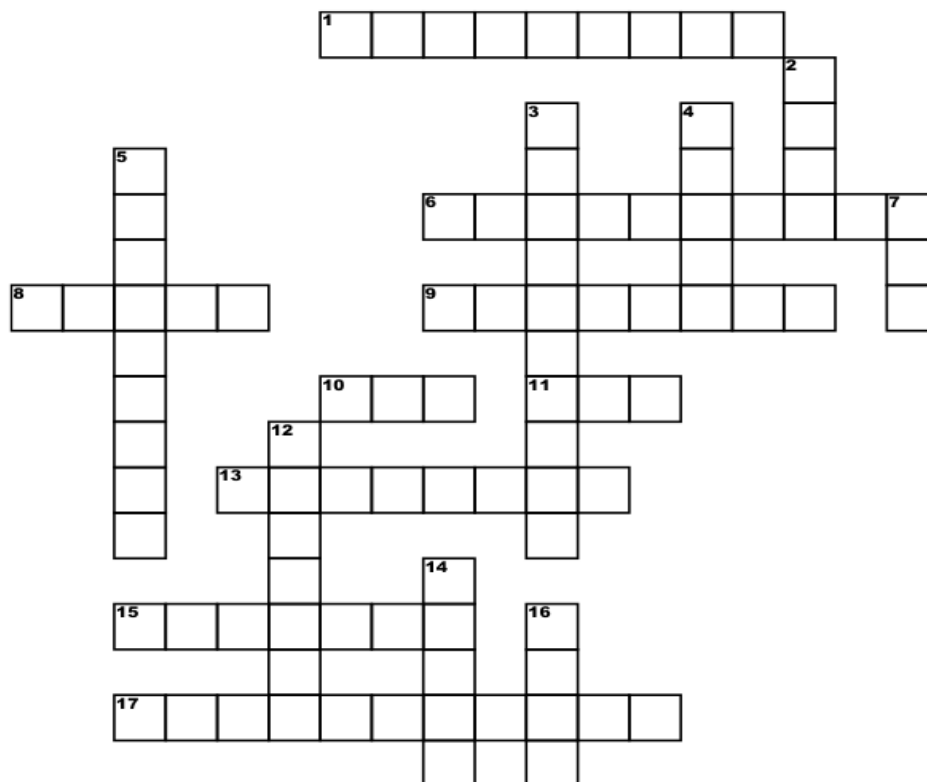
Every composite number can be express as the product of prime number and these numbers are unique. Their order may be change. This is known as Fundamental Theorem of Arithmetic.

Read the above carefully and give the answer of the following :

- (i) Find the prime factor of 255.
- (ii) Find the prime factor of 135.
- (iii) Find HCF of 130 and 240 by prime factorization method.
- (iv) Find HCF of 135 and 225 by prime factorization method.

Section-II: Cross word problem

Number System



Across

1. all natural numbers having more than two distinct factors

6. the sum or difference of a rational and irrational number is

8. all counting numbers together with zero are

9. a whole number that can be positive, negative or zero

10. short form of highest common factor

11. the sum of even and odd is always

13. the number of the form P/q

15. any two consecutive numbers will always be

17. the numbers which can be represented on number line

Down

2. the product of two even is always

3. a number which cannot be written in form P/q

4. if a number has two distinct factors namely 1 and itself then it is called

5. a series of well defined steps

7. short form of least common multiple

12. all counting numbers are

14. a proven statement which is used to prove another statement

16. a number that is divisible by 2

Section-III: Subject terminology and remembering skills

3. Define the following:

- i. Rational Number
- ii. Irrational Number
- iii. Prime Number
- iv. Coprime Number

4. Give short/long answers:

- i) Find the LCM and HCF of the 26,91
- ii) Given that $HCF(306, 657) = 9$, find $LCM(306, 657)$.
- iii) Define Fundamental theorem of Arithmetic.

5. Solve the following:

- i) Prove that $\sqrt{3}$ is irrational.
- ii) Prove that $3 + 2\sqrt{5}$ is irrational.

Section-IV: Problem solving skill

6. Without actually performing the long division, state whether the following rational numbers . will have a terminating decimal expansion or a non-terminating repeating decimal expansion:

(a) $\frac{13}{3125}$

(b) $\frac{64}{455}$

7. (a) Prove that $\sqrt{5}$ is irrational.

(b) Prove that $7 + 3\sqrt{2}$ is irrational

Section-E

Part -3-Revision Assignment-2



R.E.D Group of Schools Revision Assignment for Holiday Homework

Day & Date: _____

Class: 10th

Chapter No.: 2

Chapter Name: Polynomials

Revision Assignment : 2

Subject: Maths

For recapitulation & solving the assignment the students should refer to their Ch.2 of NCERT text book of Maths.

Section-I: Case Study

A supersonic Sonic Bridge is a type of bridge in which the deck is hung below suspension cables on vertical suspenders. The suspension cables are in parabolic shape. The point on the suspension cable just above the mid point of the deck is the lowest point of the deck is the lowest point of the suspension cable and the suspension cable is symmetric about a vertical line, Parallel to the suspenders, through the lowest point.



A Parabola is the curve representing $p(x) = ax^2 + bx + c$. Parabolas are symmetric about a vertical line known as the axis which cuts the parabola at the lowest or highest point known as the vertex of the parabola.

- i) If the Suspension cable is represented by the polynomial $x^2 - 8x - 20$, then the zeroes are

a) -2, -10	b) -2, 10	c) 2, -10	d) 2, 10
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- ii) A Quadratic Polynomial the sum and the product of whose zeroes are -4 and -12, is

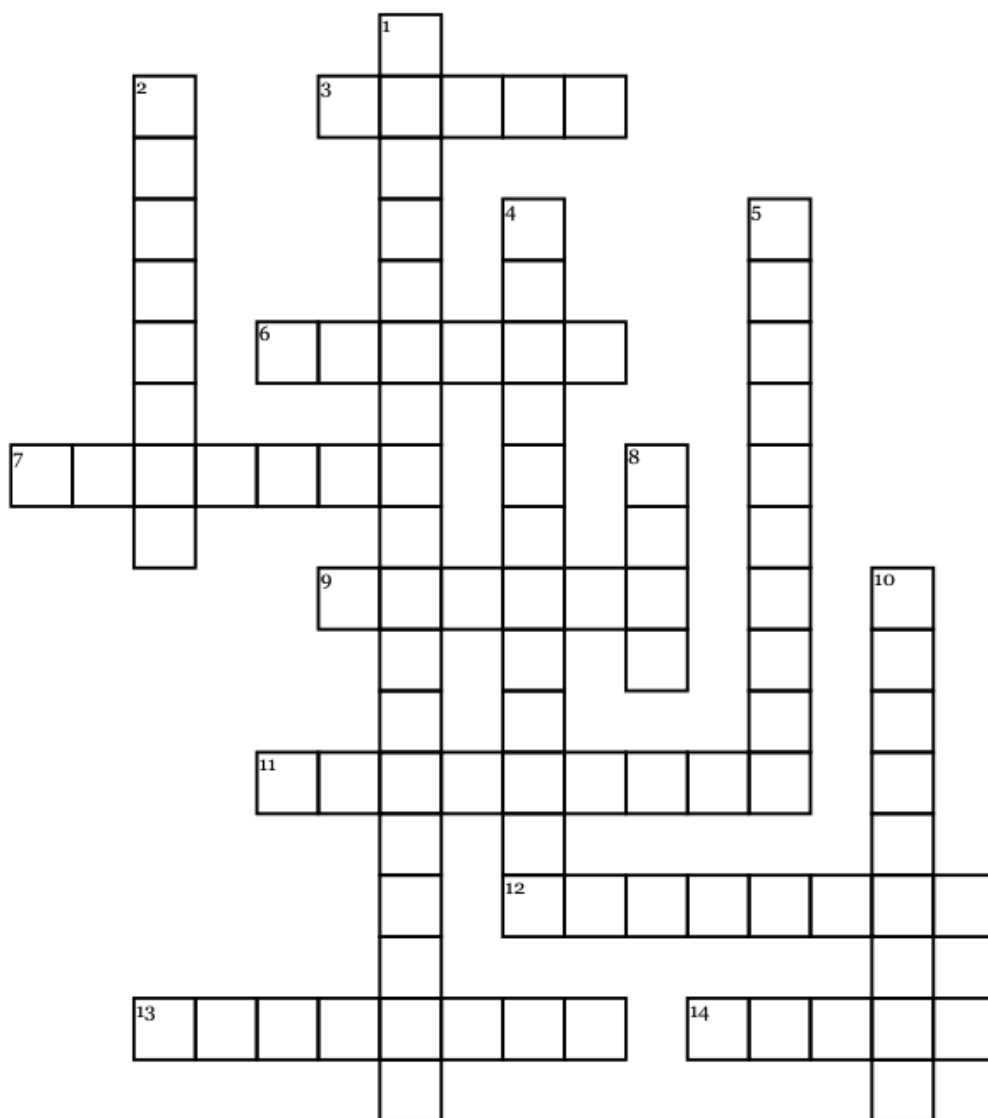
a) $x^2 - 4x - 12$	b) $x^2 + 4x + 12$
c) $x^2 + 4x - 12$	d) $x^2 + 12x - 4$
- iii) A quadratic polynomial whose one of the zero is -2 and product of whose zeroes is 8, is

a) $x^2 + 6x + 8$	b) $x^2 + 2x - 8$
c) $x^2 - 6x + 8$	d) $x^2 - 6x - 8$
- iv) A Quadratic Polynomial whose Zeroes are the reciprocal of the zeroes of $6x^2 - 7x - 3$, is

a) $6x^2 + 7x + 3$	b) $3x^2 - 7x + 6$
c) $3x^2 + 7x + 6$	d) $3x^2 + 7x - 6$

Section-II: Cross word problem

Polynomial crossword puzzle, Darkow



Across

- 3.** A polynomial has four _____.
- 6.** A straight line on a graph _____.
- 7.** X^4 is an example of a _____ function.
- 9.** The unit of measurement for temperature _____.
- 11.** $15^5 + x^4 - 6x^7$ is a 7th degree _____.
- 12.** After the 3rd term we will only have ONE more term left in the school year.

13. In 2^3 if 2 is the base the 3 is the _____.

14. A S curve on a graph represents a _____ function.

Down

1. In $3x^2$ the 3 is the _____.

2. Bill has to take TWO more terms of high school in order to graduate.

4. When ranking people for training completion, you start with the highest and best performance followed by the 2nd and so on.

5. Poly was nominated for an Oscar four years in a row, she might be nominated even more next year.

8. When I move into my new house I need to know the _____ in order to see if I have enough space.

10. A function with a degree of two is a _____.

Section-III: Subject terminology and remembering skills

3. Define the following:

- i. Polynomial
- ii. Quadratic Polynomial
- iii. Monomial
- iv. Linear Polynomial

4. Give short/long answers:

- i) Find the zeroes of the polynomials $3x^2 + 4x - 4$ by factorisation method.
- ii) Find the zeroes of the polynomial $4x^2 + 5\sqrt{2}x - 3$ by factorisation method.
- iii) Given that $\sqrt{2}$ is a zero of the cubic polynomial $6x^3 + \sqrt{2}x^2 - 10x - 4\sqrt{2}$, find its other two zeroes.

5. Solve the following:

- i) Find a quadratic polynomial, the sum and product of whose zeroes are $\sqrt{2}$ and $-3/2$, respectively. Also find its zeroes
- ii) Find k so that $x^2 + 2x + k$ is a factor of $2x^4 + x^3 - 14x^2 + 5x + 6$. Also find all the zeroes of the two polynomials.

Section-IV: Problem solving skill

6. Find the zeroes of the polynomial $4t^2 + 4\sqrt{3}t - 15$ by factorisation method.
7. Given that the zeroes of the cubic polynomial $x^3 - 6x^2 + 3x + 10$ are of the form $a, a + b, a + 2b$ for some real numbers a and b , find the values of a and b as well as the zeroes of the given polynomial.

Section-E

Part -3-Revision Assignment-3



R.E.D Group of Schools Revision Assignment for Holiday Homework

Day & Date: _____

Class: 10th

Chapter No.: 3

Chapter Name: Pair of linear equations in two variables.

Revision Assignment : 3

Subject: Maths

For recapitulation & solving the assignment the students should refer to their Ch.3 of NCERT text book of Maths.

Section-I: Case Study

A test consists of 'True' or 'False' questions. One mark is awarded for every correct answer while $\frac{1}{4}$ mark is deducted for every wrong answer. A student knew answers to some of the questions. Rest of the questions he attempted by guessing. He answered 120 questions and got 90 marks.

Type of Question	Marks given for correct answer	Marks deducted for wrong answer
True/False	1	0.25

i) If answer to all questions he attempted by guessing were wrong, then how many questions did he answer correctly?

- (a) 94
- (b) 96
- (c) 92
- (d) 90

ii) How many questions did he guess?

- (a) 22
- (b) 26
- (c) 24
- (d) 20

iii) If answer to all questions he attempted by guessing were wrong and answered 80 correctly, then how many marks he got?

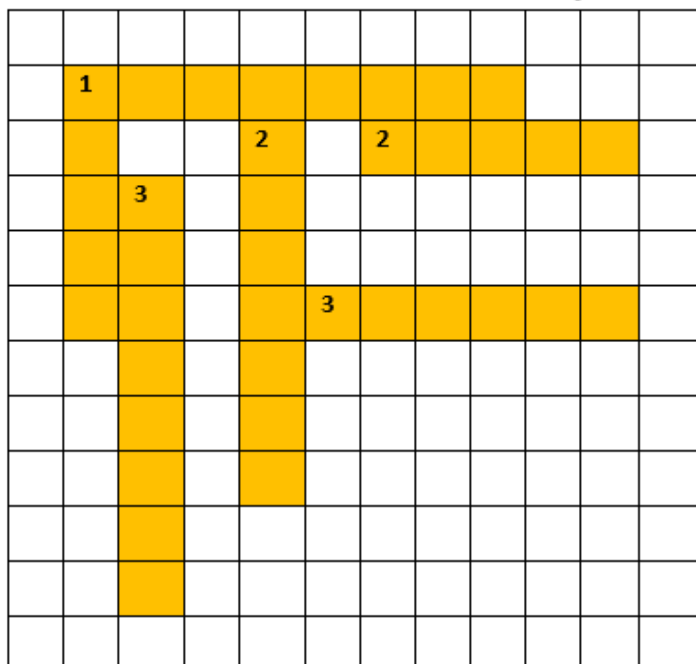
- (a) 70
- (b) 72
- (c) 40
- (d) 72

iv) . If answer to all questions he attempted by guessing were wrong, then how many questions answered correctly to score 95 marks?

- (a) 95
- (b) 80
- (c) 120
- (d) 100

Section-II: Cross word problem

Cross-Word Puzzle on Linear equations



Across

- 1 When system of equation has no solution then graph is ... lines.
 2 The graph of $X+4=6$ is parallel to

Down

- 1 linear equations in 3 variables represents
- 2 In infinite many solution lines each other.
- 3 The graph of linear equation in 2 variables represent.....line

Section-III: Subject terminology and remembering skills

3. Define the following:

- i. Linear Equation
- ii. Consistent
- iii. In-consistent
- iv. Algebraic Methods to solve Pair of linear equations in two variables.

4. Give short/long answers:

- i) Half the perimeter of a rectangular garden, whose length is 4 m more than its width, is 36 m. Find the dimensions of the garden?
- ii) Solve the following pair of equations by substitution method:

$$7x - 15y = 2$$

$$x + 2y = 3$$
- iii). Solve $2x + 3y = 11$ and $2x - 4y = -24$ and hence find the value of 'm' for which $y = mx + 3$?

5. Solve the following:

- i) The larger of two supplementary angles exceeds the smaller by 18 degrees. Find them.?
- ii) . For what value of k, the pair of equations $4x - 3y = 9$, $2x + ky = 11$ has no solution?.

Section-IV: Problem solving skill

6. The value of 'k' for which the system of equation $2x + 3y = 5$ and $4x + ky = 10$ has infinite number of solutions is ?
7. Draw the graph of $2y = 4x - 6$; $2x = y + 3$ and determine whether this system of linear equations has a unique solution or not.?

Section-E

Part -3-Revision Assignment-4



R.E.D Group of Schools Revision Assignment for Holiday Homework

Day & Date: _____

Class: 10th

Chapter No.: 6

Chapter Name: Triangles

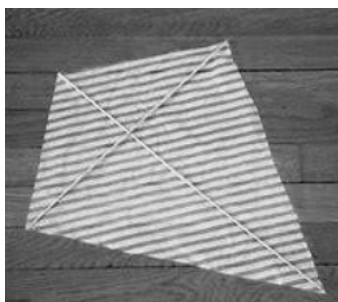
Revision Assignment : 4

Subject: Maths

For recapitulation & solving the assignment the students should refer to their Ch.6 of NCERT text book of Maths.

Section-I: Case Study

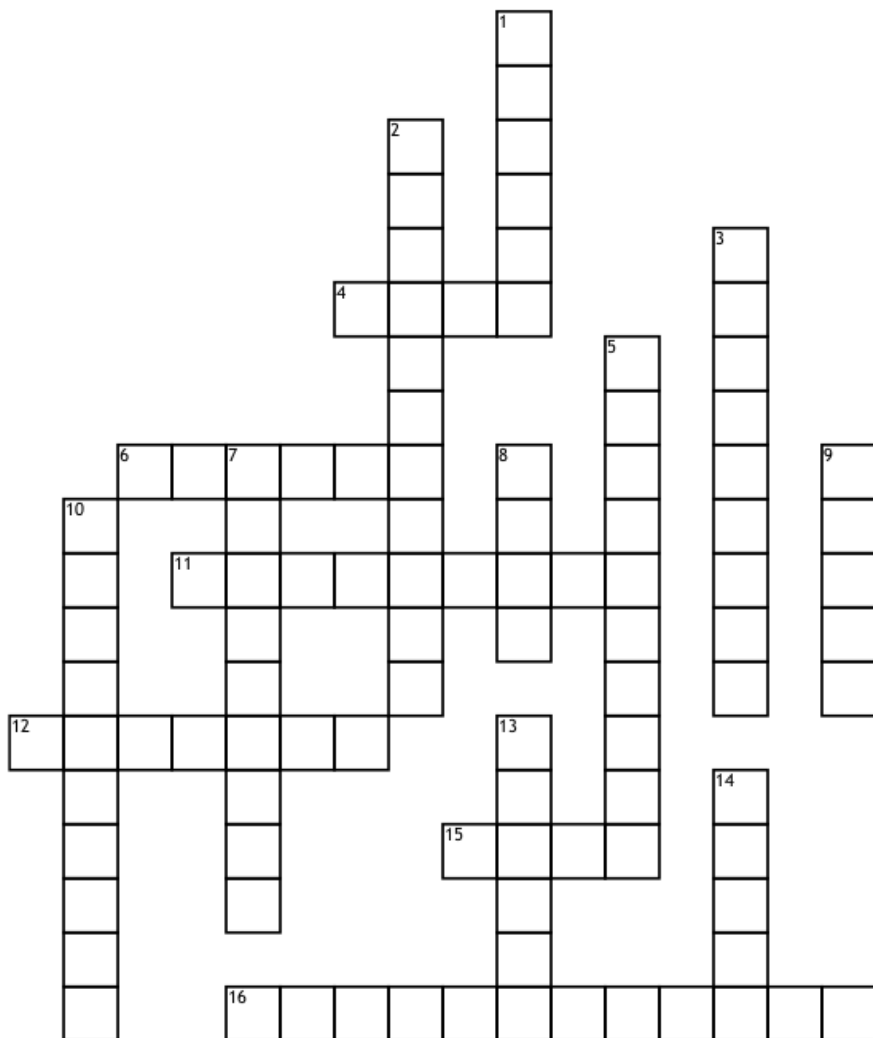
Rahul is studying in X Standard. He is making a kite to fly it on a Sunday. Few questions came to his mind while making the kite. Give answers to his questions by looking at the figure.



- (i) Rahul tied the sticks at what angles to each other?
 - a) 30°
 - b) 60°
 - c) 90°
 - d) 60
- (ii) Which is the correct similarity criteria applicable for smaller triangles at the upper part of this kite?
 - a) RHS
 - b) SAS
 - c) SSA
 - d) AAS
- (iii) Sides of two similar triangles are in the ratio 4:9. Corresponding medians of these triangles are in the ratio,
 - a) 2:3
 - b) 4:9
 - c) 81:16
 - d) 16:81
- (iv) In a triangle, if square of one side is equal to the sum of the squares of the other two sides, then the angle opposite the first side is a right angle. This theorem is called as,
 - a) Pythagoras theorem
 - b) Thales theorem
 - c) Converse of Thales theorem
 - d) Converse of Pythagoras theorem

Section-II: Cross word problem

Vocabulary: Triangles



Across

4. opposite side over hypotenuse

6. Measure of the vertical distance

11. same size same shape

12. opposite side over adjacent side

15. In the area formula of a triangle, what does b stand for?

16. the study of the relationship between the angles and the sides of a triangle

Down

1. angle greater than 90 degrees

2. a triangle with three equal sides

3. Formula that is for the distance around the shape

5. the side opposite to the right angle

7. a triangle with two equal sides

8. the amount of space within a shape

9. angle less than 90 degrees

10. the theorem that relates the three sides of a triangle

13. a triangle with no equal sides

14. a triangle with a 90 degree angle

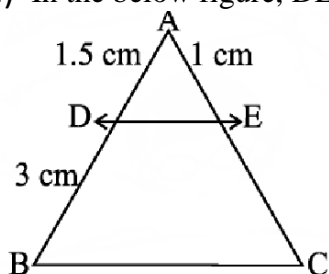
Section-III: Subject terminology and remembering skills

3. Define the following:

- i. Congruent Figures
- ii. Similar Figures
- iii. Pythagoras Theorem
- iv. Triangle
- v. Equilateral Triangles

4. Give short/long answers:

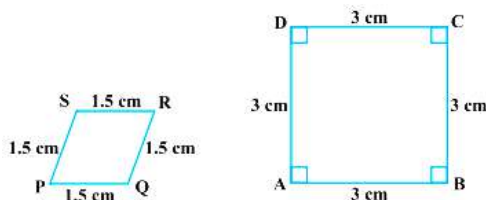
- i) D is a point on the side BC of a triangle ABC such that $\angle ADC = \angle BAC$. Show that $CA^2 = CB \cdot CD$.
- ii) In the below figure, $DE \parallel BC$, find EC



- iii) All circles are (congruent, similar)

5. Solve the following:

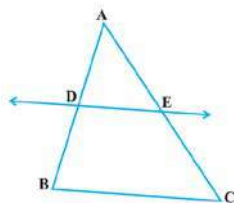
- i) Give two different examples of pair of (i) similar figures. (ii) non-similar figures.
- ii) State whether the following quadrilaterals are similar or not:



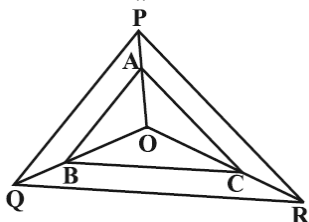
Section-IV: Problem solving skill

6. If a line intersects sides AB and AC of a $\triangle ABC$ at D and E respectively and is parallel to BC, prove that

$$\frac{AD}{AB} = \frac{AE}{AC}$$



7. In Fig. 6.21, A, B and C are points on OP, OQ and OR respectively such that $AB \parallel PQ$ and $AC \parallel PR$. Show that $BC \parallel QR$.



Section-E

Part -3-Revision Assignment-5



R.E.D Group of Schools Revision Assignment for Holiday Homework

Day & Date: _____

Class: 10th

Chapter No.: 7

Chapter Name: Coordinate Geometry

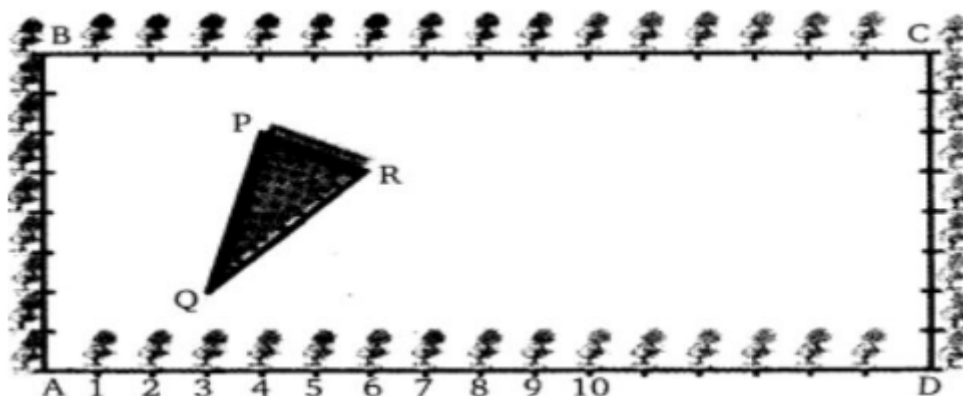
Revision Assignment : 5

Subject: Maths

For recapitulation & solving the assignment the students should refer to their Ch.7 of NCERT text book of Maths.

Section-I: Case Study

The class X students school in krishnagar have been allotted a rectangular plot of land for their gardening activity. Saplings of Gulmohar are planted on the boundary at a distance of 1 m from each other. There is triangular grassy lawn in the plot as shown in the figure. The students are to sow seeds of flowering plants on the remaining area of the plot.



(i) Taking A as origin, find the coordinates of P

- a) (4,6)
- b) (6,4)
- c) (0,6)
- d) (4,0)

(ii) What will be the coordinates of R, if C is the origin?

- a) (8,6)
- b) (3,10)
- c) (10,3)
- d) (0,6)

(iii) What will be the coordinates of Q, if C is the origin?

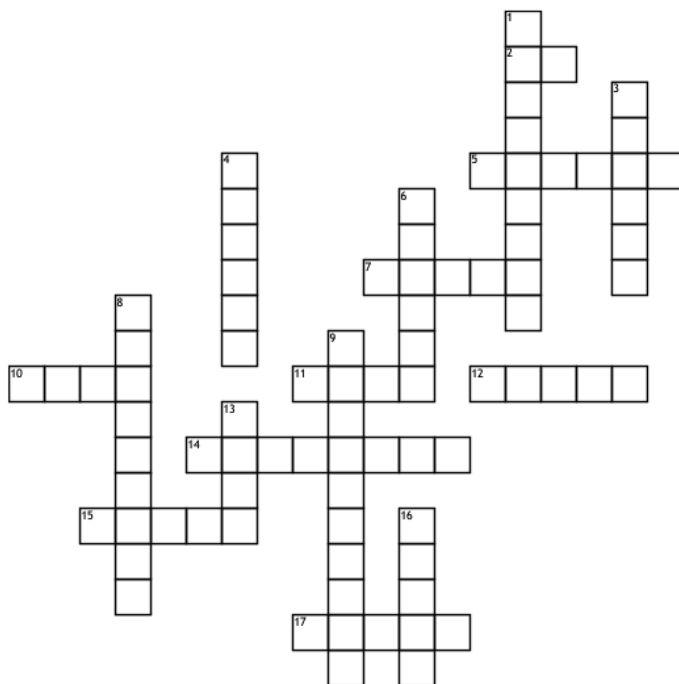
- a) (6,13)
- b) (-6,13)
- c) (-13,6)
- d) (13,6)

(iv) Calculate the area of the triangles if A is the origin

- a) 4.5
- b) 6
- c) 8
- d) 6.25

Section-II: Cross word problem

Coordinate Geometry Vocabulary



Across

2. If the y coordinate is POSITIVE, move vertically _____?

5. Rene Descartes is a _____ Mathematician.

7. The point (2,3) is in the _____ quadrant.

10. The x axis and the y axis divide the plane in _____ sections.

11. If the y coordinate is NEGATIVE, move vertically _____?

12. The point (-2,-3) is in the _____ quadrant.

14. The y axis is like a _____ number line.

15. If the x coordinate is POSITIVE, move horizontally to the _____?

17. This axis is horizontal

Down

1. The four parts of the coordinate plane are called the _____.

3. The point (-2,3) is in the _____ quadrant.

4. The point (2,-3) is in the _____ quadrant.

6. The point where the x axis and the y axis meet is called the _____.

8. The coordinate plane is also called the _____ plane

9. The x axis is like a _____ number line.

13. If the x coordinate is NEGATIVE, move horizontally to the _____?

16. This axis is vertical

Word Bank

Cartesian	quadrants	origin	x axis	Y axis	Four
French	First	Fourth	Second	Third	Vertical
Horizontal	Right	Left	UP	Down	

Section-III: Subject terminology and remembering skills

3. Define the following:

- i. Perpendicular
- ii. parallel lines
- iii. Section formula
- iv. Distance formula
- v. Axis

4. Give short/long answers:

- i) Show that the points (1, 7), (4, 2), (-1, -1) and (-4, 4) are the vertices of a square.
- ii) Find a relation between x and y such that the point (x, y) is equidistant from the points (7, 1) and (3, 5).
- iii) In what ratio does the point (-4, 6) divide the line segment joining the points A(-6, 10) and B(3, -8)?

5. Solve the following:

- i) Find a point on the y -axis which is equidistant from the points $A(5, 2)$ and $B(-4, 3)$.
- ii) Prove that the points $A(-3, 0)$, $B(1, -3)$ and $C(4, 1)$ are the vertices of an isosceles right-angled triangle.

Section-IV: Problem solving skill

6. Find the relation between x and y if point $P(x, y)$ lies on the perpendicular bisector of the line joining the points $(3, 6)$ and $(-3, 4)$.
7. Find the value of k if the point $P(0, 2)$ is equidistant from $(3, k)$ and $(k, 5)$.

Section-E

Part -3-Revision Assignment-6



R.E.D Group of Schools Revision Assignment for Holiday Homework

Day & Date: _____

Class: 10th

Chapter No.: 4

Chapter Name: Quadratic Equations

Revision Assignment : 6

Subject: Maths

For recapitulation & solving the assignment the students should refer to their Ch.4 of NCERT text book of Maths.

Section-I: Case Study

Raj and Ajay are very close friends. Both the families decide to go to Ranikhet by their own cars. Raj's car travels at a speed of x km/h while Ajay's car travels 5 km/h faster than Raj's car. Raj took 4 hours more than Ajay to complete the journey of 400 km.



1. What will be the distance covered by Ajay's car in two hours?

- a) $2(x + 5)$ km
- b) $(x - 5)$ km
- c) $2(x + 10)$ km
- d) $(2x + 5)$ km

2. Which of the following quadratic equation describe the speed of Raj's car?

- a) $x^2 - 5x - 500 = 0$
- b) $x^2 + 4x - 400 = 0$
- c) $x^2 + 5x - 500 = 0$
- d) $x^2 - 4x + 400 = 0$

3. What is the speed of Raj's car?

- a) 20 km/hour
- b) 15 km/hour
- c) 25 km/hour
- d) 10 km/hour

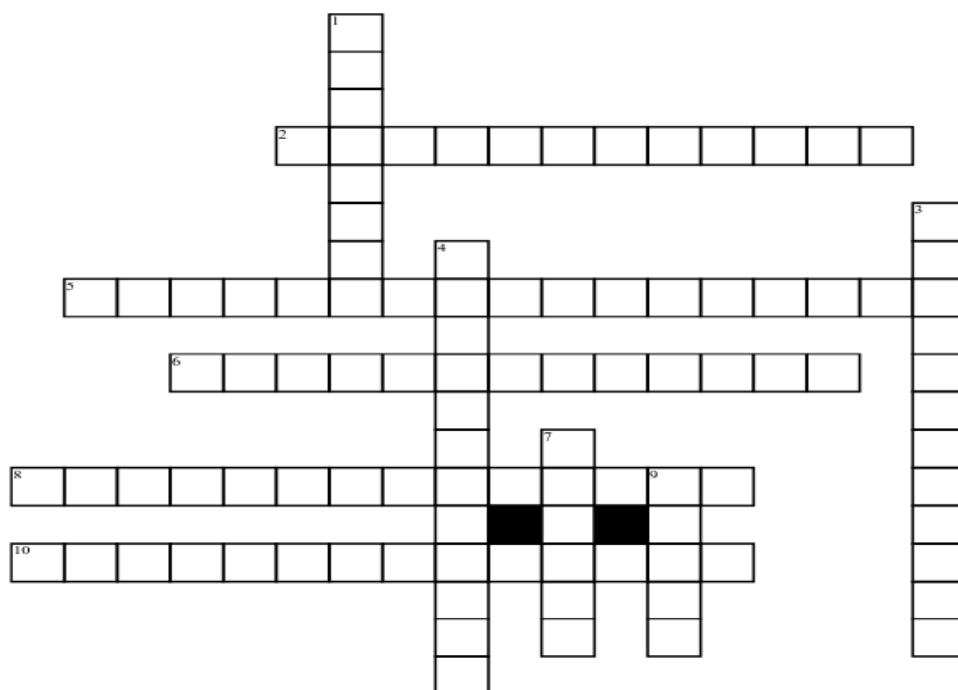
4. How much time took Ajay to travel 400 km?

- a) 20 hour
- b) 40 hour
- c) 25 hour
- d) 16 hour

Section-II: Cross word problem

Name: _____ Date: _____ Period: _____

Unit 2 Quadratic Functions-Vocabulary



Across

- 2. highest point of a parabola
- 5. a function that can be written in the form $f(x)=ax^2+bx+c$, where a, b & c are real numbers
- 6. a square of a whole number
- 8. a line that divides a figure in half
- 10. the original function before a transformation is applied

Down

- 1. a plane curve formed by the intersection of a right circular cone
- 3. the lowest point of a parabola
- 4. b^2-4ac
- 7. the point of intersection of lines
- 9. the solution to a quadratic equation

Word Bank

QuadraticFunction Parabola
 Vertex Roots
 MaximumValue PerfectSquare

Axisofsymmetry ParentFunction
 Discriminant MinimumValue

Section-III: Subject terminology and remembering skills

3. Define the following:

- i) Quadratic Formula.
- ii) Quadratic Equation.
- iii) Cubic Equation.

4. Give short/long answers:

- i) Find the value of p for which the quadratic equation $2x^2 + px + 8 = 0$ has two real and Distinct roots.
- ii) Find the value of k for which the quadratic equation $2x^2 + kx + 2 = 0$ has two real roots.
- iii) The sum of the areas of two squares is 640 m^2 . If the difference in their perimeters be 64 m , find the sides of the two squares.

5. Solve the following:

- (i) If $x = 2/3$ and $x = -3$ are roots of the quadratic equations $ax^2 + 7x + b = 0$, find the values of a and b .
- (ii) A two digit number is four times the sum of the digits. It is also equal to 3 times the product of digits. Find the number.

Section-IV: Problem solving skill

6. The difference of two numbers is 5 and the difference of their reciprocals is $1/10$. Find the roots.
7. The sum of the squares of the two positive integers is 208 . If the square of the larger number is 18 times the smaller number, find the numbers.



R.E.D. Group of Schools
Summer Holidays Homework (2022-23)

Class: X

Subject – Science

Text Book: NCERT

Dear Students

Learning is the beginning of wealth.

Learning is the beginning of health.

Learning is the beginning of spirituality.

Searching and learning is where the miracle process all begins.

“Education breeds confidence.

Confidence breeds hope.

Hope breeds peace.”

Holiday is the time that we all eagerly wait for. We all make plans to enjoy, to relax and to empower ourselves during these gala days. This summer vacation the Holiday Homework so designed by the mentors of the school is a medium for you all to achieve the motto of “Fun and Learn”

The activity based assignments will foster curiosity, develop creativity, enhance knowledge and instill the joy of learning among you all. They will certainly help you discover a new you who is more enriched and confident and performs every action to perfection.

As it is well recognized that R.E.D. Sr. Sec. School not only focuses on academics but lay equal importance on Co-scholastic Competencies. The school also desires you to adhere to the following guidelines for a fulfilling break:

1. Guidelines for practice during vacation along with completion of Home Assignment:

- ❖ Neatness and presentation are common parameters for most of the activities assigned. Please maintain the quality of work done.
- ❖ Complete and submit the holiday homework timely.
- ❖ Holiday homework will be assessed on certain parameters and marks/grade will be awarded accordingly.
- ❖ Make sure that all syllabus done till May must be revised thoroughly as your Pre-Mid exam will start from July.
- ❖ To score well in your upcoming exams strike a balance between your leisure time and studies.
- ❖ Read NCERT chapters thoroughly and increase fluency and vocabulary skills as new themes and vocabulary are introduced in the selected lessons.
- ❖ Enhance enquiry intelligence, prediction artistry, measuring art, observation techniques. Educational studies have shown that student reading skills deteriorate when reading is not done over a period of time.
- ❖ Highlight areas of doubt and clarify with the teacher after vacation.
- ❖ Refer different reference books for strengthening the conceptual knowledge.

2. Class-wise, Subject-wise Details for Home work for Vacation :-

Class: 10th

Subject: Science

Books Prescribed by School: NCERT Text Book

3. Syllabus covered upto 12th June

- ❖ Chapter-1:Chemical Reaction and Equation
- ❖ Chapter-2:Acid,Bases and Salts
- ❖ Chapter-3 : Metals and Non Metals
- ❖ Chapter-6 : Life Processes

- ❖ Chapter-7 :Control and Coordination (Upto Pg. No. 126)
- ❖ Chapter-8: How Do Organisms Reproduce
- ❖ Chapter-10: Light: Reflection and Refraction
- ❖ Chapter-11: Human Eye and the Colourful World

4. List of all new concepts taught so far

1. Characteristics of Chemical Reaction
2. Rules for writing a Word, Symbolic and Balanced Chemical Equation
3. Different types of Chemical Reactions:- Combination,Decomposition,Displacement,Double Displacement,Redox,Neutralisation,Precipitation,Exothermic and Endothermic Reactions
4. Corrosion and its prevention in day to day life
5. Rancidity and its preventive measures in day to day life
6. Types of Acids on the basis of origin
7. Chemical properties of Acids and Bases
8. Acid and Base Indicators
9. Types of Salts :- Common salt,Washing Soda,Caustic Soda,Baking Soda,Baking powder,POP,Gypsum and Bleaching powder
10. Physical and Chemical Properties of Metals and Non-Metals
11. Ionic Compounds
12. Occurrence, Extraction and Refining of metals
13. Different Modes of Nutrition-Autotrophic,Heterotrophic and Holozoic
14. Nutrition in Human Beings and Human Digestive System
15. Types of Respiration
16. Human Respiratory System and Mechanism of Breathing
17. Human Circulatory System/Double Circulation
18. Blood Pressure and Lymphatic System
19. Transport of Food and Water in Plants
20. Excretion in Humans
21. Structure and Function of Nephron
22. Haemodialysis
23. Excretion in Plants
24. Animal Nervous System:- Neuron and its types
25. Synapse and Neuromuscular Junction/Divisions of Nervous System
26. Human Brain Parts and Functions
27. Asexual Reproduction in Multicellular Organisms
28. Tissue Culture/Micropropagation
29. Sexual Reproduction in Plants
30. Pollination and Fertilisation in Plants
31. Reproduction in Human Beings-Male and Female Reproductive System
32. Menstruation and Reproductive Health
33. Light and its Properties
34. Laws of Reflection
35. Image Formation by Plane and Spherical Mirrors
36. Uses of Mirrors
37. Sign Conventions of Mirrors And Lenses
38. Mirror Formula and Linear Magnification

39. Refraction and its Laws
40. Refraction through Rectangular Glass Slab
41. Image Formation by Spherical Lenses
42. Uses of Spherical Lenses
43. Lens Formula and Linear Magnification
44. Power of Lenses
45. Structure of Human Eye and its function
46. Power of Accommodation of Eye
47. Defects Of Vision - Myopia ,Hypermetropia,Presbiopia and their Correction
48. Refraction of light through Prism
49. Atmospheric Refraction and Formation of Rainbow
50. Atmospheric Refraction- Sunset and Early Sunrise, Position of Stars and Sun
51. Scattering of Light and Tyndall Effect- Twinkling of Stars

5. **Daily time to be spent for doing H.W per day : 30 Minutes**

6. **Suggested links of youtube / study material for completing the home work**

CHAPTER NAME	TOPICS	YOU TUBE LINKS FOR TOPICS
Ch-1 Chemical Reactions and Equations	Chemical reactions and characteristics	https://www.youtube.com/watch?v=8w9yRxBZzSo
	Chemical equations and displaying informations	https://www.youtube.com/watch?v=LMJvCiXMSNE
	Balancing of chemical reactions	https://www.youtube.com/watch?v=LiM2TY8qdko
	Combination reactions	https://www.youtube.com/watch?v=0NaHOgCGDVc
	Decomposition reactions	https://www.youtube.com/watch?v=5S9_DJMWV24
	Exothermic and endothermic reactions	https://www.youtube.com/watch?v=x4jSz8hINBs
	Combination reaction between calcium oxide and water	https://www.youtube.com/watch?v=9i7vMbadQEc
	Thermal decomposition of Ferrous sulphate crystals.	https://www.youtube.com/watch?v=8FjJ3IA1_0
	Displacement reactions	https://youtu.be/nqLzBpIL6Ns
	Double-displacement reactions	https://www.youtube.com/watch?v=XK9e62N5-IA
	Reduction and oxidation reactions	https://www.youtube.com/watch?v=x7LrY5Y37M4
	Rancidity and corrosion.	https://www.youtube.com/watch?v=xSe2Bt5AAbA
Ch-2 Acids,	Types of acids on the basis of origin	https://www.youtube.com/watch?v=yd7XJVifECU
	Acid-base indicators	https://www.youtube.com/watch?v=6objQakWI8A
	Chemical properties of acids and bases	https://www.youtube.com/watch?v=nL2NPCvYaNU

Bases and Salts	Importance of pH in everyday life	https://www.youtube.com/watch?v=r3hirzIWILM
	Salts and its types (common salt)	https://www.youtube.com/watch?v=lm681Olls7w
	Salts and its types (caustic soda)	https://www.youtube.com/watch?v=2Mvnab4djxk
	Salts and its types (washing soda)	https://www.youtube.com/watch?v=cBaa1uWuVmg
	Salts and its types (baking soda)	https://www.youtube.com/watch?v=cBaa1uWuVmg
	Salts and its types (Bleaching powder)	https://www.youtube.com/watch?v=yKn0wiQ_0eU
	Salts and its types (Plaster of Paris)	https://www.youtube.com/watch?v=BGhIPzx49ik
Ch-3 Metals and Non Metals	Physical properties of metals with exceptions	https://www.youtube.com/watch?v=GW6KZmONDO4
	Chemical properties:- Metals+ Oxygen	https://www.youtube.com/watch?v=t24cJefn9RY
	Chemical properties:- Metals +Acids	https://www.youtube.com/watch?v=9hBCLoWwcWo
	Displacement reaction by metals and reactivity series of metals.	https://www.youtube.com/watch?v=ubCCy4_AOmQ
	Chemical properties of non-metals.	https://www.youtube.com/watch?v=Z-tt-pAxMRA
	How do metals and non-metals react?	https://www.youtube.com/watch?v=TxHi5FtMYKk
	Occurrence of metals (Ores and minerals)	https://www.youtube.com/watch?v=n6npS1mdQUc
	Extraction of metals (enrichment of ores)	https://www.youtube.com/watch?v=luyYDyWvpPE
	Extraction of metals low in activity series (Cu, Hg)	https://www.youtube.com/watch?v=wG1vmpcnBBQ
	Extraction of metals middle in activity series (Zn and Fe).	https://www.youtube.com/watch?v=AfXYCnxTVac
	Extraction of metals high up in activity series (K, Na, Ca, Mg, Al).	https://www.youtube.com/watch?v=bku08MRip0I
	Electrolytic refining of metals.	https://www.youtube.com/watch?v=pMEiyKZ4H4g
	Corrosion and prevention of corrosion.	https://www.youtube.com/watch?v=QTQvQdfkl74
	https://www.youtube.com/watch?v=69bAuRQGlog	
Alloys		
Ch-6 Life Processes		https://www.youtube.com/watch?v=yjbxagum7UI
	Autotrophic nutrition	https://www.youtube.com/watch?v=GiPKVZPJtE8
	Heterotrophic mode of nutrition	https://www.youtube.com/watch?v=tDGKKn7guoA
	Nutrition in human beings.	https://www.youtube.com/watch?v=pLWL9YVpv-4
	Digestive Glands, Digestion of food.	https://www.youtube.com/watch?v=pLWL9YVpv-4
Types of respiration and Mechanism of respiration	https://www.youtube.com/watch?v=k9BWCnnXOG8	

	Respiration in plants and animals, Human Respiratory system.	https://youtu.be/s6xUQxnjXmg
	Double circulation and Blood components and blood vessels	https://youtu.be/_qmNCJxpsr0
	Blood pressure and Lymphatic system	https://youtu.be/cCPyWFK0IKs
	Excretion in humans	https://youtu.be/EhnRhFLyOg
Ch-7 Contr ol and Coordi nation	Animals Nervous System- Neuron and Its Types	https://www.youtube.com/watch?v=ouwh7rHsM7c
	Synapse and Neuromuscular Junction, Divisions of Nervous System	https://www.youtube.com/watch?v=zbo0i1r1pXA
	Human Brain (Diagram)	https://www.youtube.com/watch?v=eOoPacvkKQk
	Reflex Action, Hormonal Coordination in Animal	https://www.youtube.com/watch?v=WLa4eFzf0sQ
	Hormones & Feedback Mechanism	https://www.youtube.com/watch?v=hblwlcSbBn4
	Coordination in Plants, Growth Dependent Movements (Activity)	https://www.youtube.com/watch?v=NGO_hlZwdCA
	Phytohormones	https://www.youtube.com/watch?v=mzxp8Vc5-9k
	Ch-8 How Do Organ isms Repro duce?	Tissue culture (micropropagation)
Pollination and Fertilisation in Plants		https://www.youtube.com/watch?v=B7aiqbNN4Po
Structure and Parts of Human Male Reproductive System		https://www.youtube.com/watch?v=k60M1h-DKVY
Human Female Reproductive System		https://www.youtube.com/watch?v=HH_2yge9uYY
What happens when the egg is not fertilised.		https://www.youtube.com/watch?v=ak7tFOL32sE
Reproductive Health, Methods of Family planning		https://www.youtube.com/watch?v=zTGIQJxcj2U
Ch-10 Light- Reflect ion and Refract ion	Light and its properties, Reflection and laws of reflection	https://youtu.be/Xf_VZ8GxU1Y
	Image formation by plane mirror	https://youtu.be/g_5_4Ktamf8
	Spherical mirrors and types of images	https://youtu.be/vysmvom-lvg
	Image formation by spherical mirrors and important rays to trace image	https://youtu.be/vysmvom-lvg
	Image formation by concave mirror	https://youtu.be/cTulbx9tZa0
	Image formation by convex mirrors and uses of mirrors	https://youtu.be/HLVJCaOgZww
	Distinction between mirrors and sign convention for spherical mirror	https://youtu.be/1Y4i0_xQUHA

	Mirror formula and magnification by spherical mirrors	https://youtu.be/cQ492W3VSfc
	Refraction of light, optically rarer and denser medium	https://youtu.be/v5SuSB_93FM
	Refraction through glass slab and , laws of refraction	https://youtu.be/t7kFpEvLjM
	Refractive index	https://youtu.be/2EjtccSsFgM
	Refraction by spherical lens	https://youtu.be/8EbeqZ4fKc0
	Refraction by thin convex lens	https://youtu.be/3G_6Kfk-Dmk
	Refraction through concave lens and uses of lens.	https://youtu.be/sXx_jj8H7-k
	Sign convention, lens formula and linear magnification	https://youtu.be/Hnt6pEkcd08
	Power of a lens	https://youtu.be/kG27teNlea8
Ch-11 Human Eye and Colourful World	Defects of vision and their correction-Presbyopia, Cataract.	https://youtu.be/exfhTqACxDs
	Refraction of light through prism.	https://youtu.be/cQhO88edWxU
	Dispersion of white light through prism	https://youtu.be/zx07PSHjJmk
	Atmospheric refraction and formation of rainbow	https://youtu.be/lUjvmgDaKCs
	Example of atmospheric refraction -Delay of sunset and early sunrise	https://youtu.be/7kAzunSPfpg
	Example of atmospheric refraction –Position of star and shape of sun	https://youtu.be/c9y5nwok1to
	Scattering of light and tyndall effect	https://youtu.be/OXoKZPLb6Qo
	Effect of scattering of light- Danger signal is red.	https://youtu.be/eWEC8LQrmGA

Section-A- Creative corner (Preparing teaching aid, activity wise)

Make your own helping tool for understanding concept (Model/Chart/PPT)

How to do: Prepare a teaching aid on an activity from the chapters mentioned below as per your roll numbers.

Roll No.	Topic for Activity
1 – 5	Chapter-1- Chemical Reactions and Equations
6 – 10	Chapter-2- Acids Bases and Salts
11 – 15	Chapter-3- Metals and Non-Metals
16 – 20	Chapter-6- Life Processes
21 – 25	Chapter-7- Control and coordination
26 – 30	Chapter- 8- How do Organisms Reproduce
31 – 35	Chapter-10- Light Reflection and Refraction
36 - Last	Chapter-11- Human Eye and Colourful world

Section-B- Crossword/puzzle (Chapter wise)

CROSSWORD PUZZLE FROM "NCERT BOOK any one chapter"

What to do: To make a Board Game

How to do: Take a hard board of size 6' x 6' .

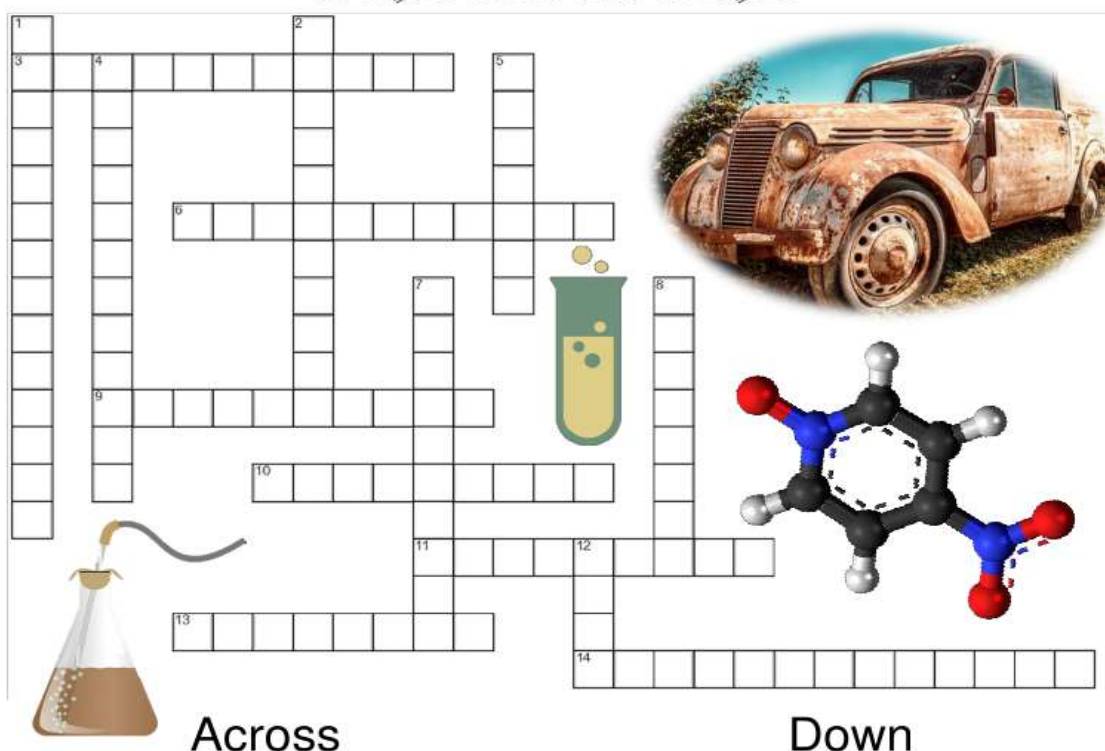
Cover it with colored sheet and draw the crossword puzzle (refer to the attachment) on the board.

Write the clues alongside. Paste the answers of the questions at the back of the board

Where to do: On a Hard board of size 6'x6'.

Parameters: Creativity, presentation

CHEMICAL REACTIONS CROSSWORD



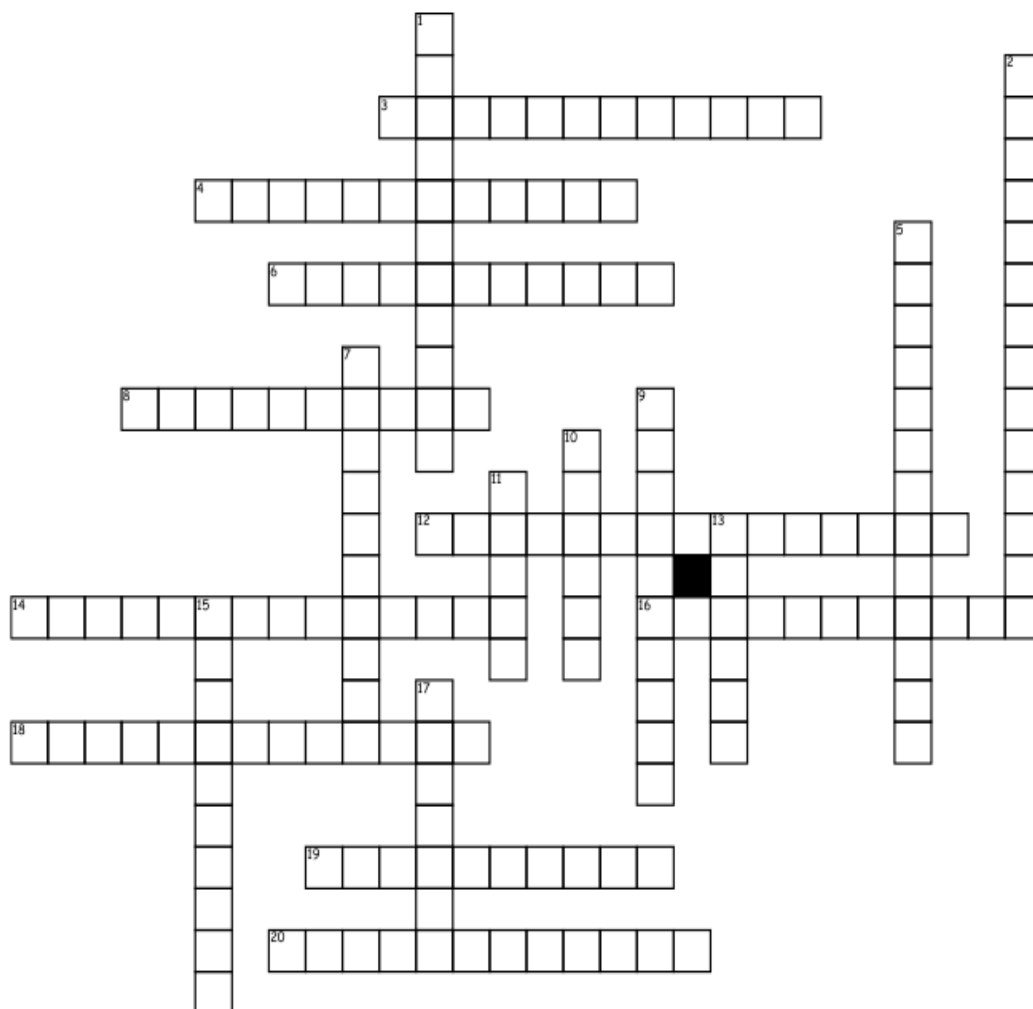
Across

Down

- | | |
|---|---|
| <p>3) Reaction that takes in energy in the form of heat</p> <p>6) Factor affecting the rate of reactions</p> <p>9) Reaction that gives out energy in the form of heat</p> <p>10) Gain of oxygen by a substance during a chemical reaction</p> <p>11) Substance which slows down or stops a chemical reaction</p> <p>13) Substance that participates in a chemical reaction</p> <p>14) Chemical reaction in which a single compound breaks down into two or more elements or compounds</p> | <p>1) Reaction between an acid and base forming water and salts</p> <p>2) Solid that forms from a solution during a chemical reaction</p> <p>4) Reaction in which one element replaces another within a compound</p> <p>5) Substance formed as a result of a chemical reaction</p> <p>7) energy is the energy needed to start a reaction</p> <p>8) Substance that speeds up a reaction without being consumed</p> <p>12) Chemical link that holds molecules together</p> |
|---|---|

Name: _____ Date: _____

Refraction and Lenses crossword puzzle



Across

3. Concave-convex lenses
 4. Consists of several simple lenses
 6. Distance from the center of the lens to the focal point
 8. First lens ever used
 12. Have curvature in only one direction
 14. A shaving mirror is this kind of mirror
 16. Binoculars use these

18. A shaving mirror is this kind of mirror
 19. This point of a lens is generally noted with a capital F
 20. Used in lenses of sunglasses

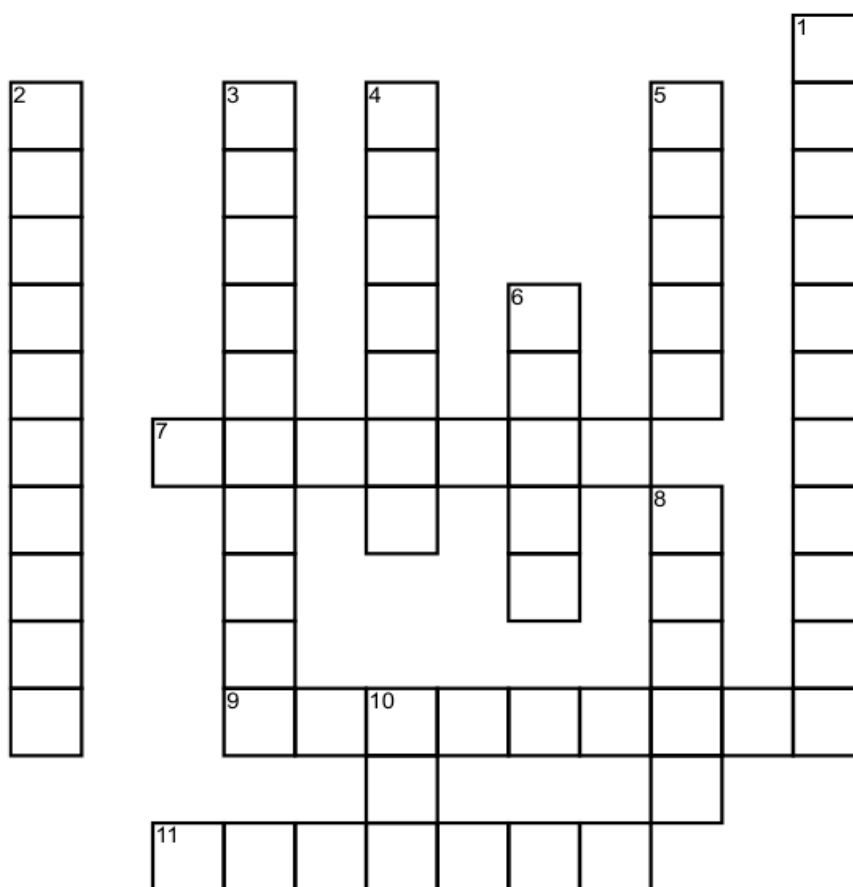
Down

1. Has its optical surface broken up into narrow rings
 2. Cause light rays to bend to a focal point
 5. Cause light ray from a specific focal point to bend

7. A mirror with a flat reflective surface
 9. Change in direction of a wave due to a change in its transmission medium
 10. Glasses or other transparent substance with curved sides
 11. What most lenses are made out of
 13. Spoon
 15. Microscopes use this type of lens
 17. Telescopes

Name: _____ Date: _____

life Processes



Across

7. site of gaseous exchange
 9. muscles that regulate the opening of stomach into small intestine
 11. starch digesting enzyme

Down

1. stores bile juice
 2. muscles develop cramps after physical workout
 3. step common to both aerobic and anaerobic respiration

4. supported by C-shaped cartilaginous rings
 5. moistens and regulate the temperature of air inhaled
 6. structures that help in absorption of digested food
 8. part where digestion begins
 10. makes the medium acidic in stomach

Section-C- Inquiry based projects (One project)

Inquiry-based science challenges students' thinking by engaging them in investigating scientifically orientated questions where they learn to give priority to evidence, evaluate explanations in the light of alternative explanations and learn to communicate and justify their decisions. These are dispositions needed to promote and justify their decisions. In short, "Scientific inquiry requires the use of evidence, logic, and imagination in developing explanations about the natural world"

❖ Sample of inquiry based project:

With the help of digital mode enquire about the different pandemic disease like Covid-19 that has affected the human race in history/ any revolutionary discoveries that change human life

Point to be enquired:

- When and where that disease has affected the human race?
- What was the cause of that disease?
- How badly it affected the human population?

- How that diseases spread?
- What were the safety measures for the diseases?
- Who has given the vaccine for the disease and when?
- Conclusion of the study

Where to do: On A4 size sheet

Parameters: Creativity, presentation

Section-D- Indian scientists and their contribution towards science (Any 3 scientists)

Inquire for the Indian scientist's contribution towards science and prepare the PowerPoint presentation on it.

Point to be enquired:

- Birth
- Education
- Invention
- Achievements

Choose any three from following:

- Jagadish Chandra Bose
- Subrahmanyam Chandrasekhar
- Meghnad Saha
- Satyendra Nath Bose

Section-E- Chapter wise revision assignment

Revision Assignments of Ch-1, 2,3,6,7,8,10 and 11 are attached at last.

7. Date of submission of home work: 1st July, 2022

8. Check points for assessments of home work

Sr. No.	Checkpoints for Assessments of Home work	Remarks
1	Index	Updated /Not updated
2	Quality of Handwriting presentation	Good /Avg./ Poor
3	Quality of creative writing	Good /Avg./ Poor
4	Quality of Project work	Good /Avg./ Poor
5	Quality of Reading &Comprehension skills	Good /Avg./ Poor
6	Whether Learning work done or not	Done/ Not done
7	Whether H.W is fully Completed	Yes/ No
8	Whether H.W is partly Pending	Yes/ No

Remember

“Every action is important and every deed is vital.....”

Wishing all the students a joyful learning and Happy Holidays

Kind attention please

- ❖ The school will reopen on 1st July 2022 i.e. Friday.
- ❖ The school office will remain OPEN during the summer vacation on all working days.



R.E.D. Group of Schools

Revision Assignment for Holidays HW-1

Class: X Subject –Science Chapter No.:1 Chapter Name: Chemical Reactions and Equations

Part-1

(Case study/Activity based questions)

Instruction: Read the following passage and answer the question no. 1,2 & 3.

A chemical reaction is a representation of chemical change in terms of symbols and formulae of reactants and products. There are various types of chemical reactions like combination, decomposition, displacement, double displacement, oxidation and reduction reactions. Reactions in which heat is released along with the formation of products are called exothermic chemical reactions. All combustion reactions are exothermic reactions.

- (i) **The chemical reaction in which a single substance breaks down into two or more simpler substances upon heating is known as**
- | | |
|-------------------------------------|----------------------------------|
| (a) thermal decomposition reaction | (b) photo decomposition reaction |
| (c) electric decomposition reaction | (d) both (a) and (c) |
- (ii) **The massive force that pushes the rocket forward through space is generated due to the**
- | | |
|---------------------------|----------------------------------|
| (a) combination reaction | (b) decomposition reaction |
| (c) displacement reaction | (d) double displacement reaction |
- (iii) **A white salt on heating decomposes to give brown fumes and yellow residue is left behind. The yellow residue left is of**
- | | |
|------------------|--------------------|
| (a) lead nitrate | (b) nitrogen oxide |
| (c) lead oxide | (d) oxygen gas |

Part-2

DIRECTIONS:-

In each of the following questions, a statement of Assertion (A) is given followed by a corresponding statement of Reason (R) just below it. Of the statements, mark the correct answer as

- (a) **If both assertion and reason are true, and reason is the true explanation of the assertion.**
 (b) **If both assertion and reason are true, but reason is not the true explanation of the assertion.**
 (c) **If assertion is true, but reason is false.**
 (d) **If both assertion and reason are false.**

4.) Assertion: Copper sulphate solution is not stored in a zinc vessel.

Reason: Zinc forms complex with CuSO_4 .

5.) Assertion: Nitrogen and hydrogen combine together to form Ammonia.

Reason: It is an exothermic reaction.

6.) Assertion: A magnesium ribbon burns with a dazzling flame in air and changes into a white substance, magnesium oxide.

Reason: It is an example of decomposition reaction.

Part-3

(Practical/Activity based questions)

7.) All living beings require energy and most of that energy comes from the sun. Photosynthesis is the series of reactions by which green plants capture the energy of sunlight and store it as chemical energy in compounds such as glucose. In contrast, most living beings use chemical energy through a process called respiration.

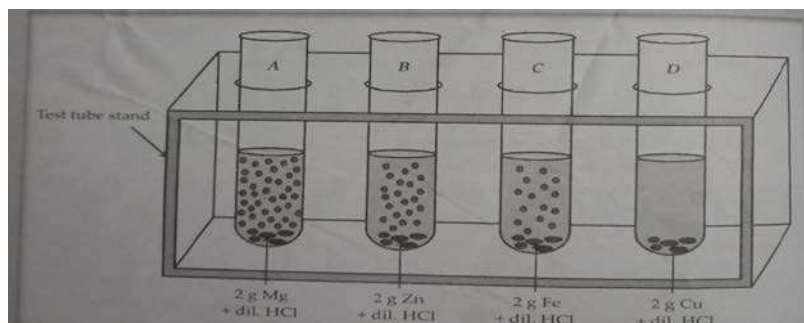
Now answer the following questions

- a.) What is photosynthesis? Is it a redox reaction? During photosynthesis, name the substance which is oxidised and the substance which is reduced?
 - b.) What is respiration? Is it a redox reaction? During respiration, name the substance which is oxidised and the substance which is reduced?
8. What is rusting and what are the causes of rusting?
9. a) Which two metals do not corrode easily?
b) Write the chemical name of the compound formed on corrosion of silver.

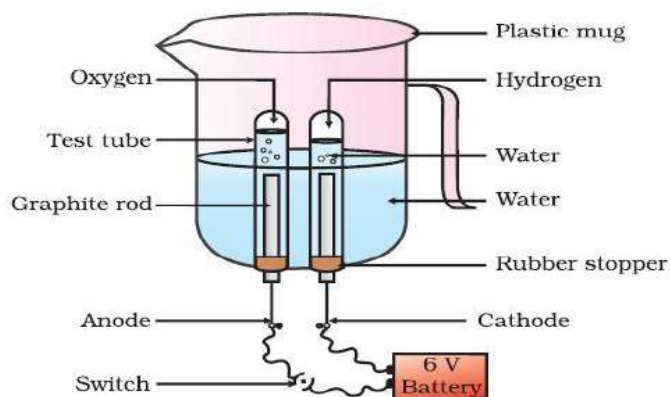
Part-4

(Diagram/ Graph/ Table/ Formula/ Units/ Symbols/ Sign based questions)

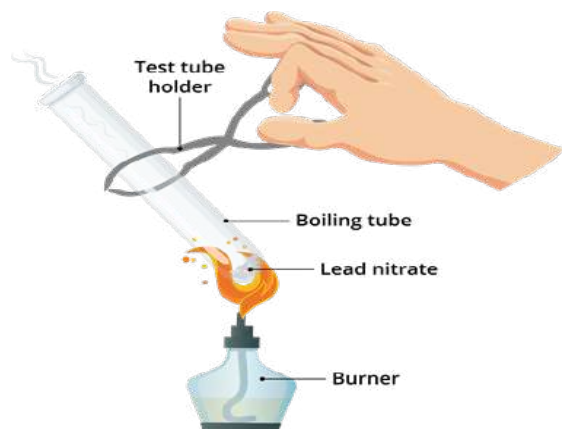
10.) Give the result of the following reactions:



11.) Give the names of gases formed on Cathode and Anode along with ratio of their volume.



12.) Give the name of gas evolved along with its colour.



Part -5

(Integer/ Numerical Value/ Chemical Equations/Application based questions)

- 13.) Oxidation is a process which involves
- addition of oxygen
 - addition of hydrogen
 - removal of oxygen
 - removal of hydrogen
- 14) What is the formula of quick lime and slaked lime?
15. Complete the following reactions
- $\text{NaOH} + \text{CO} \longrightarrow$
 - $\text{Al}_2\text{O}_3 + \text{NaOH} \longrightarrow$
 - $\text{Al}_2\text{O}_3 + \text{HCl} \longrightarrow$

Part -6

(Subjective Questions/Conceptual Questions/Application based questions)

16. If a few drops of a conc. Acid accidentally spill over the hand of a student what should be done ?
17. What is the difference between displacement and double displacement reactions? Write equations for these reactions.
18. Explain the following terms with one example each.
- Corrosion
 - Rancidity



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Revision Assignment for Holidays HW-2

Class: X Subject –Science Chapter No.:6 Chapter Name: Life processes

Part-1

(Case study/Activity based questions)

Instruction: Read the following passage and answer the question no. 1, 2& 3.

Heterotrophic nutrition is a mode of nutrition in which organisms obtain readymade organic food from outside sources. The organisms that depend upon outside sources for obtaining organic nutrients are called heterotrophs. Heterotrophic nutrition is of three types: saprophytic, parasitic and holozoic nutrition.

- (i) **In which of the following groups of organisms food material is broken outside the body and absorbed?**
 (a) Mushroom, green plants, Amoeba (b) Yeast, mushroom, bread mould
 (c) Paramecium, Amoeba, Cuscuta (d) Cuscuta, lice, tapeworm
- (ii) **Which of the following is a parasite?**
 (a) Yeast (b) Taenia
 (c) Amoeba (d) Earthworm
- (iii) **Which of the following is an example of saprotroph?**
 (a) Grass (b) Mushroom
 (c) Amoeba (d) Paramecium
- (iv) **Heterotrophic nutrition involves**
 (a) production of simple sugar from inorganic compounds
 (b) utilisation of chemical energy to prepare food
 (c) utilisation of energy obtained by plants
 (d) all of these.

Part-2

(Assertion and Reason/ Match the following type questions)

DIRECTION: In the following questions, a statement of assertion (A) is followed by a statement of reason (R). Mark the correct choice as:

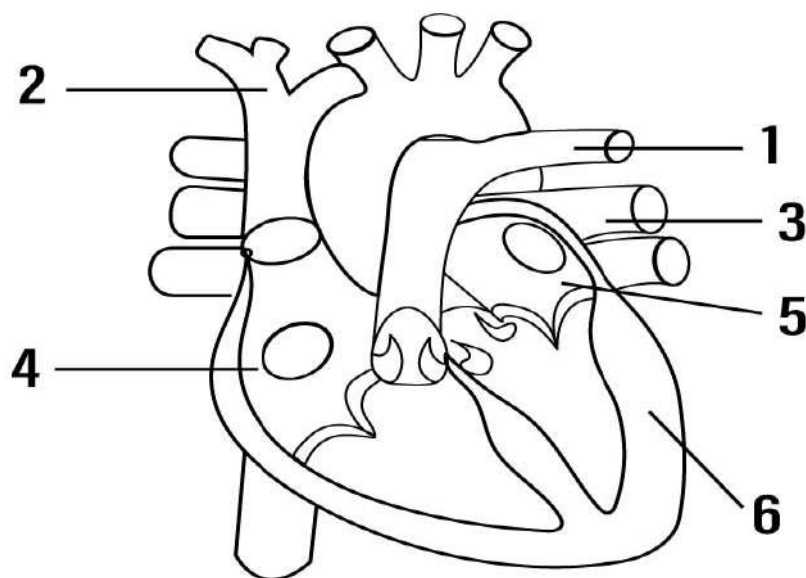
- a) Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A).
 b) Both assertion (A) and reason (R) are true but reason (R) is not the correct explanation of assertion (A).
 c) Assertion (A) is true but reasons (R) is false.
 d) Assertion (A) is false but reasons (R) is true.
 e) Both Assertion and Reason are false.
5. **Assertion (A): Carbohydrate digestion mainly takes place in small intestine.**
Reason (R): Pancreatic juice contains the enzyme lactase.
6. **Assertion (A): Rings of cartilage are present in the throat.**
Reason (R): These ensure that the air-passage does not collapse.
7. **Assertion (A): The purpose of making urine is to filter out undigested food from intestine.**
Reason (R): Kidneys filter the waste and produce urine.

Part-3**(Practical/Activity based questions)**

8. A few drops of iodine solution were added to rice water. The solution turned blue-black in colour. This indicates that rice water contains
- Complex proteins
 - Simple proteins
 - Fats
 - Starch
9. The enzymes pepsin and trypsin are secreted respectively by
- Stomach and pancreas
 - Salivary gland and stomach
 - Liver and pancreas
 - Liver and salivary gland
10. Sometimes we get painful cramps in our leg muscles after running for a long time due to the accumulation of:
- Hydrochloric acid
 - Fat
 - Carbon dioxide
 - Lactic acid

Part-4**(Diagram/ Graph/ Table/ Formula/ Units/ Symbols/ Sign based questions)**

11. Identify the figure and do the labeling of it.

**Part -5****(Integer/ Numerical Value/ Chemical Equations/Application based questions)**

12. Which element is used in the synthesis of proteins?
- Hydrogen

- b. Oxygen
 - c. Nitrogen
 - d. Carbon dioxide
13. One celled-thick vessels are called
- a. Arteries
 - b. Veins
 - c. Capillaries
 - d. Pulmonary artery
14. Blood consist of what fluid medium?
- a. Lymph
 - b. Platelets
 - c. Plasma
 - d. All of these
15. Which of these juices is secreted by pancreas?
- a. Trypsin
 - b. Pepsin
 - c. Bile juice
 - d. Both a and b

Part -6

(Subjective Questions/Conceptual Questions/Application based questions)

16. What is internal energy reserve in plants? Do the animals have the same energy reserve? Justify your answer.
17. Leaves of a healthy potted plant were coated with Vaseline. Will this plant remain healthy for long? Give reasons for your answer.
18. When is blood clotting useful? In a flow chart illustrate the four major events involved in blood clotting.



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Revision Assignment for Holidays HW-3

Class: X Subject –Science Chapter No.: 2 and 3 Chapter Name: Acids,Bases and Salts , Metals and Non Metals

Part-1

(Case study/Activity based questions)

Instruction: Read the following passage and answer the question no. 1,2& 3.

On the basis of reactivity of different metals with oxygen, water and acids as well as displacement reactions, the metals have been arranged in the decreasing order of their reactivities. This arrangement is known as activity series or reactivity series of metals.

The basis of reactivity is the tendency of metals to lose electrons. If a metal can lose electrons easily to form positive ions, it will react readily with other substances. Therefore, it will be a reactive metal. On the other hand, if a metal loses electrons less rapidly to form a positive ion, it will react slowly with other substances. Therefore, such a metal will be less reactive.

- (i) **Which of the following metals is less reactive than hydrogen?**
 (a) Copper (b) Zinc (c) Magnesium (d) Lead
- (ii) **Which of the following metals is more reactive than hydrogen?**
 (a) Mercury (b) Platinum (c) Iron (d) Gold
- (iii) **Which of the following metals reacts vigorously with oxygen?**
 (a) Zinc (b) Magnesium (c) Sodium (d) Copper

Part-2

DIRECTIONS. In each of the following questions, a statement of Assertion (A) is given followed by a corresponding statement of Reason (R) just below it. Of the statements, mark the correct answer as

- a) Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A).
 b) Both assertion (A) and reason (R) are true but reason (R) is not the correct explanation of assertion (A).
 c) Assertion (A) is true but reasons (R) is false.
 d) Assertion (A) is false but reasons (R) is true.
 e) Both Assertion and Reason are false.
- 4. Assertion (A):** Zinc carbonate is heated strongly in presence of air to form zinc oxide and carbon dioxide.

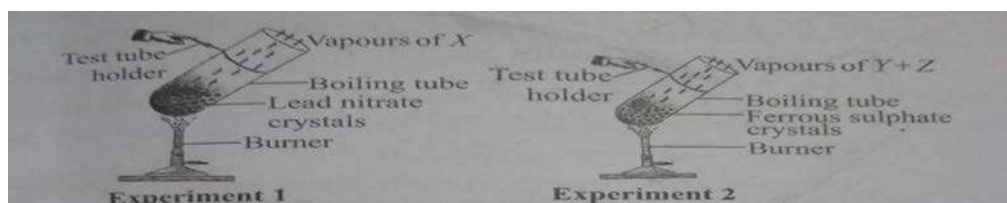
Reason (R): Calcination is the process in which a carbonate ore is heated strongly in the absence of air to form metal oxide and carbon dioxide.

5. **Assertion (A):** Highly reactive metals are obtained by electrolytic reduction.
Reason (R): In the electrolytic reduction, metal is deposited at the cathode.
6. **Assertion:** The reaction of calcium with water is less violent in comparison to that of sodium.
Reason: The heat evolved is not sufficient for the hydrogen to catch fire.

Part-3

(Practical/Activity based questions)

7. During the second wave of COVID-19 India faced a severe scarcity of O_2 gas ,
 a) could you suggest any method of preparation of O_2 gas ?
 b) Can this be used for mass production of O_2 ?
 c) What is the other gas released in this process? and also compare their volumes.
8. Give the common use of H_2O_2 and why is it stored in black bottle ?.
9. Rohit and Mayuri conducted two experiments to study the types of chemical reactions as shown in the given figures.



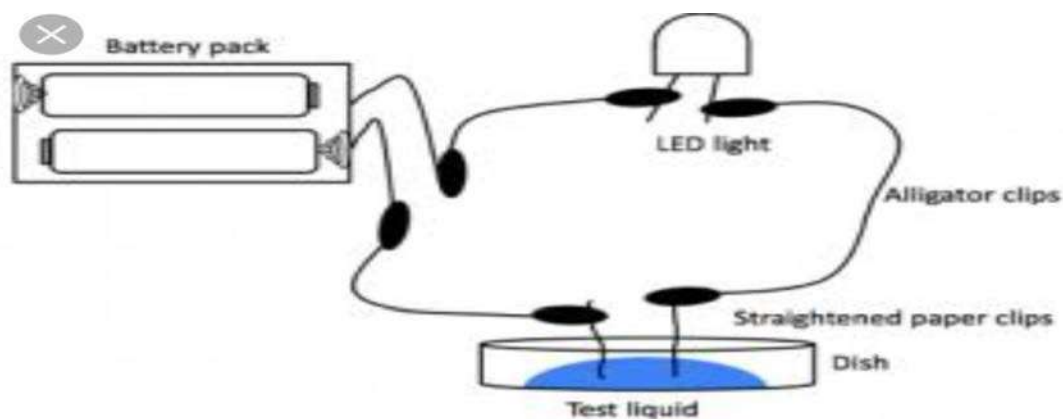
They recorded their observations as :

- I. In experiment 1, yellow residue is left behind while in experiment 2 reddish brown solid is left behind.
- II. In both experiments, two different gases were given out.
- III. The colourless gas evolved in experiment 1 extinguishes the glowing splint while the gas evolved in experiment 2 turns green solution of acidified $KMnO_4$ orange.
- IV. X is reddish brown gas while gases Z both have burning sulphur smell. The incorrect observation(s) is/are Y and
- (a) IV only
 (b) I and III only
 (c) III only
 (d) II and III only.

Part-4

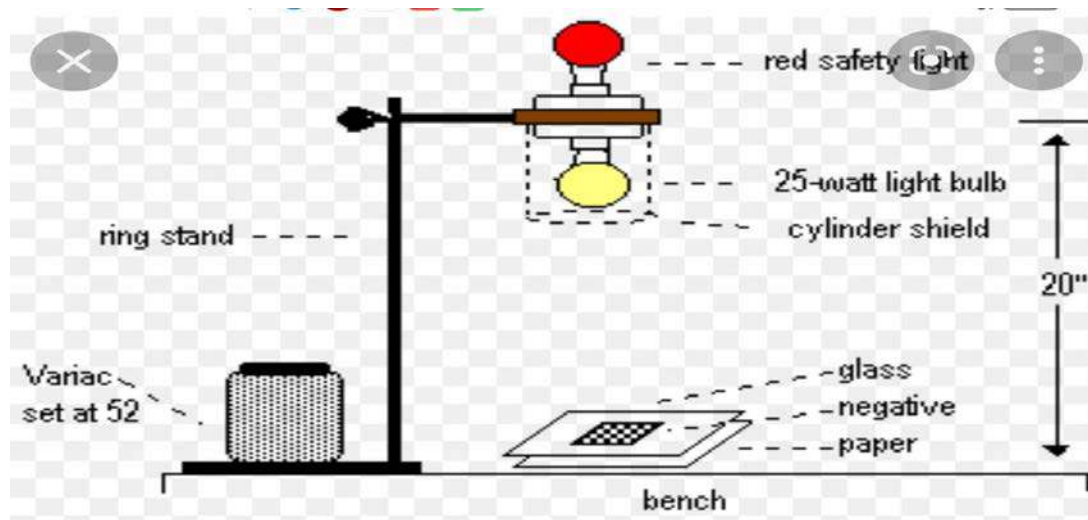
(Diagram/ Graph/ Table/ Formula/ Units/ Symbols/ Sign based question)

10. In which of the following test liquid, the LED light will glow?

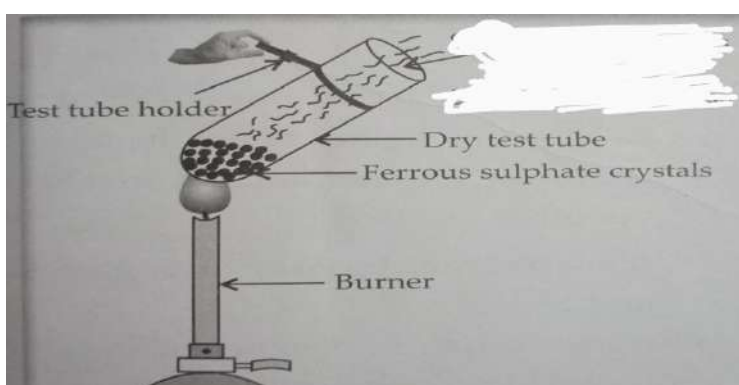


- A) Pure water
- B) Tap water
- C) Acid solution
- D) NaOH solution
- E) Sodium acetate solution

11. Which chemical is used in making negative film in black and white photography? Can you give its working?



12. Give the gas evolved along with its confirmatory test?

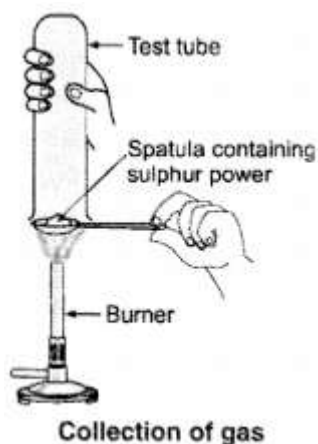


Part -5**(Integer/ Numerical Value/ Chemical Equations/Application based questions)**

13. A green layer is gradually formed on a copper plate left exposed to air for a week in a bathroom. What could this green substance be?
14. Why is sodium kept immersed in kerosene oil?
15. What would you observe when zinc is added to a solution of iron (II) sulphate ? Write the chemical reaction that takes place.

Part -6**(Subjective Questions/Conceptual Questions/Application based questions)**

16. Pratyush took sulphur powder on a spatula and heated it. He collected the gas evolved by inverting a test tube over it, as shown in the figure.
- (a) What will be the action of gas on
- (i) dry litmus paper ?
- (ii) moist litmus paper ?
- (b) Write a balanced chemical equation for the reaction taking place.



17. Give two methods of preparation of sodium carbonate.
18. Give reasons :
- (a) Platinum, gold and silver are used to make jewellery.
- (b) Sodium, potassium and lithium are stored under oil.
- (c) Aluminium is a highly reactive metal, yet it is used to make utensils for cooking.



R.E.D. Group of Schools

Revision Assignment for Holidays HW-4

Class: X Subject –Science Chapter No.:10 And 11 Chapter Name: Light: Reflection and Refraction, Human Eye and the Colourful World

Part-1

(Case study/Activity based questions)

Instruction: Read the following passage and answer the question no. 1, 2 & 3.

A convex lens of focal length 20 cm is mounted on an upright of an optical bench. The image of a distant object is formed on a screen. A concave lens of focal length 25 cm is placed in contact with the given lens. The screen is moved suitably to focus the image of the same distant object.

1. What is the distance of screen from convex lens, where image of distant object is obtained?
 - a) Image of distant object is formed at the focus of convex lens i.e. at a distance of 20 cm from convex lens.
 - b) Image of distant object is formed at the focus of concave lens i.e. at a distance of 20 cm from convex lens.
 - c) Image of distant object is formed at the focus of concave lens i.e. at a distance of 22cm from convex lens.
 - d) Image of distant object is formed at the focus of convex lens i.e. at a distance of 25 cm from convex lens.
2. Where will the image of distant object be formed?
 - a) The image of distant object will be formed at a distance of 1 m from the combination.
 - b) The image of distant object will be formed at a distance of 11 m from the combination.
 - c) The image of distant object will be formed at a distance of 12 m from the combination.
 - d) The image of distant object will be formed at a distance of 10m from the combination.
3. Will the image formed by combination be real or virtual?
 - a) It will be a real image formed on the screen.
 - b) It will be a virtual image formed on the screen.
 - c) No image will form on the screen.
 - d) It will be a virtual image formed before the screen.

Part-2

(Assertion and Reason/ Match the following type questions)

DIRECTION: In the following questions, a statement of assertion (A) is followed by a statement of reason (R). Mark the correct choice as:

- a) Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A).
- b) Both assertion (A) and reason (R) are true but reason (R) is not the correct explanation of

assertion (A).

c) Assertion (A) is true but reasons (R) is false.

d) Assertion (A) is false but reasons (R) is true.

e) Both Assertion and Reason are false.

4. Assertion: - Danger signals are red.

Reason: - Red colour has smallest wavelength.

5. Assertion: - A thin lens is more powerful.

Reason:- $P = 1 / f$

6. Assertion: - Clear sky is blue.

Reason: - Blue colour has shortest wavelength and it is scattered the most.

Part-3

(Practical/Activity based questions)

7. Three students A, B and C focused a distant building on a screen with the help of a concave mirror. To determine focal length of the concave mirror, they measured the distances as given below:

Student A: From mirror to the screen

Student B: From building to the screen

Student C: From building to the mirror.

Who measured the focal length correctly?

(a) Only A

(b) Only B

(c) A and B

(d) B and C

8. A student sitting on the last bench can read the letters written on the blackboard but is not able to read the letters written in his text book. Which of the following statements is correct?

(a) The near point of his eyes has receded away

(b) The near point of his eyes has come closer to him

(c) The far point of his eyes has come closer to him

(d) The far point of his eyes has receded away

9. A child is standing in front of a magic mirror. She finds the image of her head bigger, the middle portion of her body of the same size and that of the legs smaller. The following is the order of combinations for the magic mirror from the top.

(a) Plane, convex and concave

(b) Convex, concave and plane

(c) Concave, plane and convex

(d) Convex, plane and concave

Part-4**(Diagram/ Graph/ Table/ Formula/ Units/ Symbols/ Sign based questions)**

10. Which of the following phenomena of light are involved in the formation of a rainbow?
- Reflection, refraction and dispersion
 - Refraction, dispersion and total internal reflection
 - Refraction, dispersion and total internal reflection
 - Dispersion, scattering and total internal reflection
11. Two plane mirrors are inclined to each other at an angle of 30° . The number of images of a point object held in between the mirrors is
- 6
 - 11
 - 12
 - Infinite
12. Twinkling of stars is due to atmospheric:
- Dispersion of light by water droplets
 - Refraction of light by different layers of varying refractive indices
 - Scattering of light by dust particles
 - Internal reflection of light by clouds

Part -5**(Integer/ Numerical Value/ Chemical Equations/Application based questions)**

13. A student performed several experiment using a convex mirror, and listed his observations as follows:
- Image of an object is always real and inverted.
 - The image is always magnified.
 - When object is at the pole of the mirror, image is virtual, erect and of same size as the object.
 - For any position beyond the pole of the mirror, the image is virtual, erect and smaller in size than the object.
- Which are the correct observations?
- (i) and (ii) only
 - (iii) and (iv) only
 - (i) and (iii) only
 - All the four
14. The change in focal length of an eye lens is caused by the action of the
- Pupil
 - Retina
 - Iris
 - Ciliary muscles
15. Angle of deviation through a prism is given by (where A is angle of prism, i is angle of incidence and e is angle of emergence):

(a) $D = i - e + A$

(b) $D = -i + e - A$

(c) $D = i + e - A$

(d) $D = A - i - e$

Part -6**(Subjective Questions/Conceptual Questions/Application based questions)**

16. A narrow beam of white light is shown to pass through a triangular glass prism. After passing through the prism, it produces a spectrum XY on a screen.
- (a) State the colour seen at X and Y.
- (b) Why do different colours of white light bend through different angles with respect to the incident beam of light?
17. How will you distinguish a convex lens from a concave lens without touching either?
18. Which colour has longest wavelength and which one has shortest wavelength? Which colour deviates the most and which colour deviates least on passing through prism?



R.E.D. Group of Schools

Revision Assignment for Holidays HW-5

Class: X Subject –Science Chapter No.:7 and 8 Chapter Name: Control and Coordination and How Do Organisms Reproduce?

Part-1

(Case study/Activity based questions)

Instruction: Read the following passage and answer the question no. 1,2& 3.

Rohit collected some pond water which was dark green in color in a test tube. She took out green-colored mass from it and separated its filaments by using needles. She broke some filaments into small fragments and put them in a Petri dish containing clean water. She observed that after a few days the small fragments gave rise to complete filaments.

1. What do you think the mass of green filament was?
 - (a) It was a mass of Spirogyra filament.
 - (b) It was a colony of Volvox algae.
 - (c) It was large brown algae.
 - (d) It was a mass of fungal filaments

2. Organisms that reproduces in similar ways as Spirogyra is:
 - (a) Yeast
 - (b) Hydra
 - (c) Planaria
 - (d) Sea Anemone

3. The small fragment gave rise to new filament. What does it indicate?
 - (a) Spirogyra reproduces asexually through budding.
 - (b) Spirogyra reproduces asexually through spore formation.
 - (c) Spirogyra reproduces asexually through fragmentation.
 - (d) Spirogyra reproduces asexually through fission

4. Select the correct statement from the following.
 - (a) Only multicellular organisms can undergo fragmentation.
 - (b) Both unicellular and multicellular organisms can undergo fragmentation.
 - (c) Fragmentation is sexual mode of reproduction.
 - (d) Fragmentation is found only in algae

Part-2

(Assertion and Reason/ match the following type questions)

DIRECTION: In the following questions, a statement of assertion (A) is followed by a statement of reason (R). Mark the correct choice as:

- a) Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A).
- b) Both assertion (A) and reason (R) are true but reason (R) is not the correct explanation of assertion (A).
- c) Assertion (A) is true but reasons (R) is false.
- d) Assertion (A) is false but reasons (R) is true.
- e) Both Assertion and Reason are false.

5. Assertion (A): Spores are unicellular bodies.
Reason (R): The parent body simply breaks up into smaller pieces on maturation.
6. Assertion (A): Asexual reproduction is a primitive type of reproduction.
Reason (R): Asexual reproduction involves only mitotic cell division
7. Assertion (A): Pollen grains from the carpel stick to the stigma of stamen.
Reason (R): The fertilised egg cells grow inside the ovules and become seeds.

Part-3

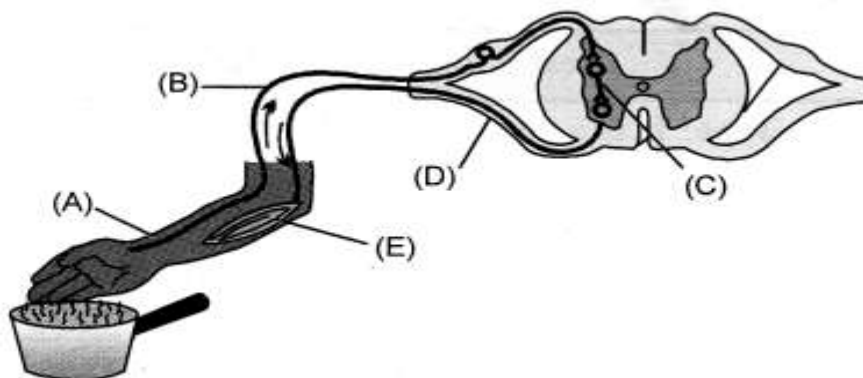
(Practical/Activity based questions)

8. The highest coordinating centre in the human body is
(a) Spinal cord
(b) Heart
(c) Brain
(d) Kidney
9. Main function of cerebrum is
(a) Thinking
(b) Hearing
(c) Memory
(d) Balancing
10. Posture and balance of the body is controlled by
(a) Pons
(b) Medulla oblongata
(c) Cerebellum
(d) Cerebrum
11. Which part of the brain controls breathing?
(a) Cerebrum
(b) Cerebellum
(c) Hypothalamus
(d) Medulla oblongata

Part-4

(Diagram/ Graph/ Table/ Formula/ Units/ Symbols/ Sign based questions)

12. Identify the Mechanism involved in the figure and label the parts given below.



Part -5

(Integer/ Numerical Value/ Chemical Equations/Application based questions)

13. The main function of Abscisic acid in plants is
- to promote cell division.
 - to inhibit growth.
 - to promote growth of stem.
 - to increase the length of cell
14. The seed that contains the future plant is called the
- Cotyledons
 - Seed coat
 - Germ cells
 - Embryo
15. The period of pregnancy is called
- Gestation period
 - Incubation period
 - Ovulation
 - Menstruation period

Part -6

(Subjective Questions/Conceptual Questions/Application based questions)

16. What is the effect of DNA copying which is not perfectly accurate on the reproduction process?
17. What happens at the synapse between two neurons?
18. How does growing embryo get nutrition from the mother's blood?



R.E.D. Group of Schools
Summer Holidays Homework (2022-23)

Class – 10

Subject – Social Science

Text Book: NCERT

Part-I

Vision & Guidelines for Vacation Home work

Dear Students

Learning is the beginning of wealth.

Learning is the beginning of health.

Learning is the beginning of spirituality.

Searching and learning is where the miracle process all begins.

Holiday is the time that we all eagerly wait for. We all make plans to enjoy, to relax and to empower ourselves during these gala days. This summer vacation the Holiday Homework so designed by the mentors of the school is a medium for you all to achieve the motto of “Fun and Learn”

The activity based assignments will foster curiosity, develop creativity, enhance knowledge and instill the joy of learning among you all. They will certainly help you discover a new you who is more enriched and confident and performs every action to perfection.

As it is well recognized that R.E.D. School not only focuses on academics but lay equal importance on Co-scholastic Competencies. The school also desires you to adhere to the following guidelines for a fulfilling break:

1. Guidelines for practice during vacation along with completion of Home Assignment:

- ❖ Neatness and presentation are common parameters for most of the activities assigned. Please maintain the quality of work done.
- ❖ Complete and submit the holiday homework timely.
- ❖ Holiday homework will be assessed on certain parameters and marks/grade will be awarded accordingly.
- ❖ Make sure that all syllabus done till May must be revised thoroughly as your Pre-Mid exam will start from July.
- ❖ To score well in your upcoming exams strike a balance between your leisure time and studies.
- ❖ Read NCERT chapters thoroughly and increase fluency and vocabulary skills as new themes and vocabulary are introduced in the selected lessons.
- ❖ Enhance enquiry intelligence, prediction artistry, measuring art, observation techniques. Educational studies have shown that student reading skills deteriorate when reading is not done over a period of time.
- ❖ Highlight areas of doubt and clarify with the teacher after vacation.
- ❖ Refer different reference books for strengthening the conceptual knowledge.
- ❖ Abide by Corona Guidelines
- ❖ Stay Home, Stay Safe!
- ❖ **Daily time to be spent for doing H.W per day : 30 Minutes**
- ❖ **Date of submission of HW :1ST July, 2021**

2. SYLLABUS COVERED UPTO 31stMay

- ❖ Chapter-1 Power Sharing (Civics)
- ❖ Chapter- 2 Federalism(Civics)
- ❖ Chapter- 1 Development (Eco)
- ❖ Chapter-2 Sectors of Indian Economy (Eco)
- ❖ Chapter-3 Money and Credit (Eco)

- ❖ Chapter-4 Globalisation and the Indian Economy (Eco)
- ❖ Chapter-1 The Rise of Nationalism in Europe (His)
- ❖ Chapter-1 Resources and Development (Geo)
- ❖ Chapter-4 Agriculture (Geo)

3. LIST OF ALL NEW CONCEPTS TAUGHT SO FAR

- ❖ Different forms of Power sharing in India.
- ❖ Federalism and its practices in India.
- ❖ Criterion used by countries for calculating Average Income and comparison.
- ❖ Different sectors of Indian Economy.
- ❖ Different forms of money, terms of credit and sources of credit.
- ❖ The process of globalisation and it's effect.
- ❖ The process of Nationalism in different countries of Europe.
- ❖ Classification of resources and land as a resource.
- ❖ Different types of farming and geographical conditions of different crops.

4. CHECKPOINTS FOR ASSESSMENTS OF HOME WORK

Sr. No.	Checkpoints for Assessments of Home work	Remarks
1	Index	Updated /Not updated
2	Quality of Handwriting presentation	Good /Avg./ Poor
3	Quality of creative writing	Good /Avg./ Poor
4	Quality of Project work	Good /Avg./ Poor
5	Quality of Reading &Comprehension skills	Good /Avg./ Poor
6	Whether Learning work done or not	Done/ Not done
7	Whether H.W is fully Completed	Yes/ No
8	Whether H.W is partly Pending	Yes/ No

5. RESOURCES or TOOLS REQUIRED FOR DOING HOME WORK

- ❖ NCERT BOOK
- ❖ Notebook
- ❖ A4 Sheets
- ❖ Internet
- ❖ Charts
- ❖ Political Map of India and World
- ❖ Current/Old Newspapers of one week
- ❖ Tools and Materials required for preparing charts-different samples of food and non food crops, fevicol and transparent pouches.
- ❖ Newspaper clippings
- ❖ Painting brush
- ❖ Marker/colours

Part-2 Homework

6. INSTRUCTIONS / GUIDELINES FOR SOLVING SECTION-WISE ASSIGNMENTS

Section-A- Creative corner (Preparing sample/model/Chart/PPT)

A. Soil Profile Model:

Material Required: Empty glass beaker/ jar, small pebbles/ stones, gravel, sand, garden soil with compost, dark organic compost/ cow dung, humus, grass for top, fresh leaves, white chart and sketch colour.

Steps to prepare:

- ❖ Take a glass jar and put small pebbles or stones in it.
- ❖ Put gravels followed by sand and garden soil with compost.
- ❖ Use cow dung/ dark organic compost, add green fresh leaves.
- ❖ Label the different layers of soil using chart and colour.
- ❖ Write features of each layer of soil profile on A-4 sheets.

B. **To prepare chart of different food crops and non food crops along with features:**

❖ **Material Required:** Various samples of food crops and non food crops, chart, colours, fevicol

❖ **Steps to prepare:**

- i. Take samples of different food crops (wheat, rice, mustard, millets, pulses etc) & put them in different transparent pouch and paste on the chart.
- ii. Make a table to classify geographical conditions of different crops.

Section-B- Current affair (Election results & news paper clippings)

1.

i. What to do: Knowing about different power sharing arrangements.

ii. How to do: Read any newspaper for one week and make/cut clippings of news related to ongoing conflicts or wars showing forms of power sharing.

iii. Where to do: Paste these clipping on A4 size sheet.

iv. Parameters: Creativity, presentation

After pasting on A-4 sheets find out and note down the following on another A-4 sheet:

- (i) Classify these conflicts by their location (your state, India outside India).
- (ii) Find out the cause of each of these conflicts. How many of these are related to power sharing disputes?
- (iii) Which of these conflicts could be resolved by working out power sharing arrangements?

2. Prepare for group discussion on the topic "Russia-Ukraine crisis-Impact on India."

Theme: Russia's invasion of Ukraine took many lives of innocent people. It is also affecting the economies of many countries including India because the present world is interconnected.

Section-C- Inquiry based projects (One project)

A Project file is to be made on the following topic, with a strict adherence to the following instructions:

Topic: Consumer Awareness Guidelines from the CBSE

1. The overall objective of the project work is to help students gain an insight and pragmatic understanding of the theme and see all the Social Science disciplines from interdisciplinary perspective.
2. It should also help in enhancing the Life Skills of the students. Students are expected to apply the Social Science concepts that they have learnt over the years in order to prepare the project report.
3. If possible, various forms of art may be integrated in the project work.
4. The distribution of marks over different aspects relating to Project Work is as follows:

(a) Content accuracy, originality and analysis (2) (b) Presentation and creativity (1)
(c) Viva Voce (2)

4. The Project Report should be handwritten by the students themselves.

Section-D- Map Skill (Political map of India & World)

(Mark and label the following on maps and paste on A-4 sheets)

1. Mark and different types of soil on the political map of India.
2. Mark and label leading producing states of India for the following crops on the political map of India:
Sugarcane, Rice, Wheat, Tea, coffee, Rubber, Jute, Millets and cotton.
3. Locate Russia, Germany, France, Italy, India, Spain, Poland, Belgium and Sri Lanka on the political map of world.

Section-E- Revision assignments (Total - 4)



R.E.D Group of Schools
Revision Assignment (Session : 2022-23)

Day & Date:
Class: 10
Chapter No.: 1
Chapter Name: History-The Rise of Nationalism in Europe

Revision Assignment- 1
Subject: Social Science

For recapitulation & solving the assignment the students should refer to their Ch. 1 of NCERT textbook of History.

Do as directed:

Part-1

(Logical reasoning based / case study/ puzzles/ cross words)

Instruction: Read the following passage and answer question no. 1, 2 & 3

Grimms' Fairy Tales is a familiar name. The brothers Jacob and Wilhelm Grimm were born in the German city of Hanau in 1785 and 1786 respectively. While both of them studied law, they soon developed an interest in collecting old folktales. They spent six years travelling from village to village, talking to people and writing down fairy tales, which were handed down through the generations. These were popular both among children and adults. In 1812, they published their first collection of tales. Subsequently, both the brothers became active in liberal politics, especially the movement for freedom of the press. In the meantime they also published a 33-volume dictionary of the German language.

- Q1. The Jacob brothers were born in:
 (a) Italy (b) Germany
 (c) Poland (d) France
- Q2. When did Jacob Wilhelm born?
 (a) 1785 (b) 1786
 (c) 1896 (d) 1812
- Q3. How many years did they travel from village to village, talking to people and writing down fairy tales:
 (a) 3 (b) 5
 (c) 6 (d) 7
- Q4. Which of the following aspect best signifies this image of French Revolution?
 a) A new tricolour flag chosen by Revolutionaries
 b) Conservatives of Europe
 c) Austerity and Asceticism
 d) Revenge and Vengeance



Part-2

(Subject terminology/ remembering based questions)

- Q5. Define the term Feminist and Ethnic.

- Q6. How does the caricature of **Otto von Bismarck** represent the relationship between Bismarck and the elected deputies of Parliament?
- Q7. How was the history of nationalism in Britain unlike the rest of Europe?
- Q8. What was the main aim of revolutionaries of Europe during the years following 1815?

Part-3

(Aptitude based- Assertion-Reason Based questions)

DIRECTION: In the following questions, a statement of assertion (A) is followed by a statement of reason (R). Mark the correct choice as:

- (a) Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A).
- (b) Both assertion (A) and reason (R) are true but reason (R) is not the correct explanation of assertion (A).
- (c) Assertion (A) is true but reason (R) is false.
- (d) Assertion (A) is false but reason (R) is true.
- Q9. Assertion (A): The treaty of Vienna was signed in 1815.
Reason(R): The European powers wanted to defeat Napoleon.
- Q10. Assertion(A): Conservatives believed that established traditional institutions like the monarchy, social hierarchies, property, family, church etc. should be preserved.
Reason(R): Silesian revolt started in June in the Prussia.
- Q11. Assertion (A): Nationalism aligned with imperialism led Europe to disaster in 1914.
Reason (R): Many countries in the world began to oppose imperial domination.
- Q12. Assertion (A): Italy was divided into seven states, of which only one was ruled by an Italian princely house.
Reason (R): The north was under the domination of the Bourbon kings of Spain.

- a. 1-ii, 2-i, 3-iii, 4-iv
- b. 1-i, 2-ii, 3-iii, 4-iv
- c. 1-iii, 2-iv, 3-i, 4-ii
- d. 1-i, 2-iv, 3-iii, 4-ii

Part-2

(Subject terminology/ remembering based questions)

- Q5. Define the term State list, Union list and Concurrent list.
- Q6. What do you mean by Vertical division of power and Horizontal division of power?
- Q7. What was the main objective of the Constitutional Amendment made in 1992 in India?
- Q8. Explain the establishment of majoritarian form of government in case of Sri Lanka.

(Aptitude based- Assertion-Reason Based questions)

DIRECTION: In the following questions, a statement of assertion (A) is followed by a statement of reason (R).

Mark the correct choice as:

- (a) Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A).
 - (b) Both assertion (A) and reason (R) are true but reason (R) is not the correct explanation of assertion (A).
 - (c) If assertion (A) is true but reasons (R) is false.
 - (d) If assertion (A) is false but reason (R) is true.
- Q9. Assertion (A) : In India political parties which formed the government represent the majority of seats secured in the elections to the House of the People at the Centre and the Legislative Assemblies in the States but not the Majority of votes.
Reason (R) : The elections based on the majority vote system decided the result on the basis of relative majority of votes secured..
- Q10. Assertion (A): The Constitution of India has made the President the Supreme Commander of Armed Forces.
Reason (R): Democracy maintains civilian supremacy over the military force.
- Q11. Assertion (A): Our leaders adopted a cautious approach in spreading the use of language.
Reason (R): Our leaders did not want the country to be divided.
- Q12. Assertion (A): French speaking community in Belgium was rich and powerful.
Reason (R): Belgian Government favoured French speaking community.



R.E.D Group of Schools
Revision Assignment (Session : 2022-23)

Date and Day:
Class: 10th
Chapter No.: 1 and 4 (Geo)
Chapter Name: Resources and Development and Agriculture

Revision Assignment: 3
Subject: Social Science

For recapitulation & solving the assignment the students should refer to their Ch-1 and 4 of NCERT textbook of Geo

Do as directed: –

Part-1

(Logical reasoning based / case study/ puzzles/ cross words)

Q1. Solve the puzzle by following your search horizontally and vertically to find the hidden answers.

S	F	G	S	F	O	B	R	O	M	S	U	A	P	J
Q	G	A	F	F	O	R	E	S	T	A	T	I	O	N
P	N	R	E	C	P	R	S	L	D	M	I	L	N	F
S	N	A	T	Q	X	U	O	V	A	I	O	L	A	L
O	D	E	I	D	R	J	U	J	L	D	B	N	B	D
T	G	H	M	I	N	E	R	A	L	S	A	X	M	W
B	V	J	K	M	E	D	C	R	U	P	F	M	H	R
L	A	T	E	R	I	T	E	M	V	A	Z	T	V	L
A	B	Z	O	E	N	M	F	T	I	S	D	L	R	C
C	G	N	N	S	Z	I	O	P	A	X	T	Y	J	H
K	J	G	K	D	T	D	C	S	L	S	E	G	E	W

- (i) Natural endowments in the form of land, water, vegetation and minerals.
- (ii) A type of non-renewable resource.
- (iii) Soil with high water retaining capacity.
- (iv) Intensively leached soils of the monsoon climate.
- (v) Plantation of trees on a large scale to check soil erosion.
- (vi) The Great Plains of India are made up of these soils.

Q2. Rinjha lived with her family in a small village at the outskirts of Diphu in Assam. She enjoys watching her family members clearing, slashing and burning a patch of land for cultivation. She often helps them in irrigating the fields with water running through a bamboo canal from the nearby spring. She loves the surroundings and wants to stay here as long as she can, but this little

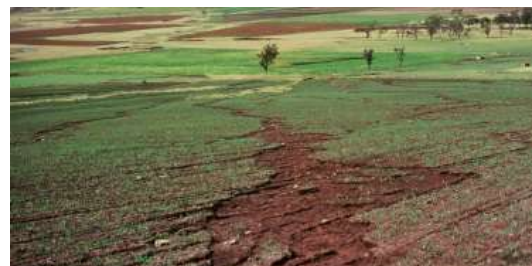
girl has no idea about the declining fertility of the soil and her family's search for fresh a patch of land in the next season.

- (a) Name the type of farming Rinjha's family is engaged in?
 (b) Enlist some crops which are grown in such farming.

Q3. When farmers have been facing so many problems and land under agriculture is decreasing, can we think of alternative employment opportunities in the agriculture sector?

Q4. Identify the type of erosion in the picture?

- a. Sheet erosion
 b. Gully erosion
 c. Contour erosion
 d. None of the above



Part-2

(Subject terminology/ remembering based questions)

- Q5. Explain the land use pattern in India and why has the land under forest not increased much since 1960-61?
 Q6. What is the importance of pulses in our economy? Why are pulses grown as a rotation crop?
 Q7. How did the partition of the country in 1947 affect the jute industry?
 Q8. What is soil erosion? Mention the reasons for the same and its types.

Part-3

(Aptitude based- Assertion-Reason Based questions)

DIRECTION: In the following questions, a statement of assertion (A) is followed by a statement of reason (R). Mark the correct choice as:

- (a) Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A).
 (b) Both assertion (A) and reason (R) are true but reason (R) is not the correct explanation of assertion (A).
 (c) If assertion (A) is true but reasons (R) is false.
 (d) If assertion (A) is false but reason (R) is true.

Q9. Assertion: Agenda 21 is the declaration signed by world leaders in 1992 at the United Nations Conference on Environment and Development (UNCED) which took place at Rio de Janeiro (Brazil).

Reason: It is an agenda to combat environmental damage, poverty, disease through global cooperation on common interest, mutual needs and shared responsibilities.

Q10. Assertion: Tea is labour intensive industry because it requires abundant, cheap and skilled labour
 Reason: Major tea producing states are – Assam, hills of Darjeeling and Jalpaigur districts, West Bengal, Tamil Nadu, Kerala.

Q11. Assertion: Small is beautiful was written by Schumacher
 Reason: It was the philosophy against the Gandhian ideology.

Q12. Assertion: Fallow land is the land that is left uncultivable.
 Reason: Cultivable land is the land that is brought under cultivation.



R.E.D Group of Schools
Revision Assignment (Session : 2022-23)

Date and Day:

Class: 10th

Chapter No.: 1, 2, 3 and 4 (Eco)

Chapter Name: Development, Sectors of Indian economy, Money and credit and Globalisation and the Indian Economy

Revision Assignment: 4

Subject: Social Science

For recapitulation & solving the assignment the students should refer to their Ch-1, 2, 3 and 4 of NCERT textbook of Economics

Do as directed: –

Part-1

(Logical reasoning based / case study/ puzzles/ cross words)

Instruction: Read the following questions and choose correct answer from options given below

Q1. The following table shows the proportion of adults (aged 15-49 years) whose BMI is below normal (BMI <18.5 kg/m²) in India. It is based on a survey of various states for the year 2015-16. Look at the table and answer the following questions.

State	Male (%)	Female (%)
Kerala	8.5	10
Karnataka	17	21
Madhya Pradesh	28	28
All States	20	23

- (i) Compare the nutritional level of people in Kerala and Madhya Pradesh.
- (ii) Can you guess why around one-fifth of people in the country are undernourished even though it is argued that there is enough food in the country? Describe in your own words.

Q2. In India, about 80 per cent of farmers are small farmers, who need credit for cultivation.

- (a) Why might banks be unwilling to lend to small farmers?
- (b) What are the other sources from which the small farmers can borrow?
- (c) Explain with an example how the terms of credit can be unfavourable for the small farmer.

Q3. The following table gives the GDP in Rupees (Crores) by the three sectors:

Year	Primary	Secondary	Tertiary
2000	52,000	48,500	1,33,500
2013	8,00,500	10,74,000	38,68,000

- (i) Calculate the share of the three sectors in GDP for 2000 and 2013.
- (ii) Show the data as a bar diagram similar to Graph 2 in the chapter.
- (iii) What conclusions can we draw from the bar graph?

Q4. Correct and rewrite:

Adding barriers or restrictions set by the government is liberalisation.

Part-2

(Subject terminology/ remembering based questions)

- Q5. Why do banks ask for collateral while giving credit to a borrower?
- Q6. What is the meaning of 'barter system'? Explain with an example.

Q7. What do you mean by GDP? What does it indicate?

Q8. What would happen if Government of India puts heavy tax on import of Chinese toys? Explain any three points.

Part-3

(Aptitude based- Assertion-Reason Based questions)

DIRECTION: In the following questions, a statement of assertion (A) is followed by a statement of reason (R).

Mark the correct choice as:

- (a) Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A).
- (b) Both assertion (A) and reason (R) are true but reason (R) is not the correct explanation of assertion (A).
- (c) If assertion (A) is true but reasons (R) is false.
- (d) If assertion (A) is false but reason (R) is true.

Q9. Assertion (A): Final goods are those goods which are ready for human consumption.

Reason (R): Both intermediate and final goods are included in calculating GDP.

Q10. Assertion (A): Per Capita Income and Average Income are the same thing.

Reason (R): The average income is the total income of the country divided by its total population

Q11. Assertion (A): Global production has a complex structure.

Reason (R): Production of one good may take place in different parts of the world. For instance equipment may be formed by combining components produced in different countries.

Q12. Assertion (A): Local businesses may set up joint production process with MNCs and earn higher profit.

Reason (R): MNCs can provide money for additional investments, like buying new machines for faster production.



R.E.D. Group of Schools

Summer Holidays Homework (2022-23)

Class: X Subject – Computer Application Text Book: Computer Applications

Part-I

Vision & Guidelines for Vacation Home work

Dear Students

Learning is the beginning of wealth.

Learning is the beginning of health.

Learning is the beginning of spirituality.

Searching and learning is where the miracle process all begins.

Holiday is the time that we all eagerly wait for. We all make plans to enjoy, to relax and to empower ourselves during these gala days. This summer vacation the Holiday Homework so designed by the mentors of the school is a medium for you all to achieve the motto of “Fun and Learn”

The activity based assignments will foster curiosity, develop creativity, enhance knowledge and instill the joy of learning among you all. They will certainly help you discover a new you who is more enriched and confident and performs every action to perfection.

As it is well recognized that R.E.D. School not only focuses on academics but lay equal importance on Co-scholastic Competencies. The school also desires you to adhere to the following guidelines for a fulfilling break:

1. Guidelines for practice during vacation along with completion of Home Assignment:

- ❖ Neatness and presentation are common parameters for most of the activities assigned. Please maintain the quality of work done.
- ❖ Complete and submit the holiday homework timely.
- ❖ Holiday homework will be assessed on certain parameters and marks/grade will be awarded accordingly.
- ❖ Make sure that all syllabus done till May must be revised thoroughly as your Pre-Mid exam will start from July.
- ❖ To score well in your upcoming exams strike a balance between your leisure time and studies.
- ❖ Read covered chapters thoroughly and increase fluency and vocabulary skills
- ❖ Enhance your Conceptual Skill by hands on practice of covered topics
- ❖ Enhance your Practical Skill through Project Work
- ❖ Highlight areas of doubt and clarify with the teacher after vacation.
- ❖ Abide by Corona Guidelines
- ❖ Stay Home, Stay Safe. !
- ❖ To score well in your upcoming exams strike a balance between your leisure time and studies.
- ❖ **Daily time to be spent for doing H.W per day : 30 Minutes**
- ❖ **Date of submission of HW :1ST July, 2022**

2. SYLLABUS COVERED UPTO 10th JUNE

- ❖ Chapter-3 HTML-1 : Basic HTML Elements
- ❖ Chapter-4 HTML-II : Images, Links and Tables
- ❖ Chapter-5 HTML-III : Audio , Video & Forms
- ❖ Chapter-7 Cyberethics

3. LIST OF ALL NEW CONCEPTS TAUGHT SO FAR

1. HTML document structure
2. Basic HTML terminology
3. Types of Tags
4. Different attributes of the <BODY> and <HTML> tags
5. Different formatting tags and their attributes
6. Logical and Physical Text styles
7. Types of Lists-ordered ,unordered and definition list
8. Inserting images
9. Types of linking
10. HTML tables
11. Inserting audio and video
12. HTML forms

4. **CHECKPOINTS FOR ASSESSMENTS OF HOME WORK**

Sr. No.	Checkpoints for Assessments of Home work	Remarks
1	Quality of presentation	Good /Avg./ Poor
2	Quality of creative work	Good /Avg./ Poor
3	Quality of Project work	Good /Avg./ Poor
4	Whether Learning work done or not	Done/ Not done
5	Whether H.W is fully Completed	Yes/ No

5. **RESOURCES & TOOLS REQUIRED FOR DOING HOME WORK**

- Notebook
- Text Book
- PC or Laptop
- MS office
- Notepad and any Web Browser
- Internet

Part-2 **Homework**

6. **DETAILS ABOUT HOME WORK**

There will be 4 sections (A to D) for each Assignment from each chapter of the syllabus covered so far

Section-A- Creative corner

To Create a PPT on "Secure Data Transmission" or "Open Source Licenses " or "Ethical Issues(Plagiarism, IPR, Digital Property Rights)"

Section-B- Creativity skill based task

Creating Digital Collage on "Web browsers" or "Web Services"

Section-C- Application Skill and Thinking Skill based Task

Create the following table in HTML. Follow the instructions given below:

INDIAN ELEPHANTS



The **Indian elephant** is one of three recognized subspecies of the Asian elephant and native to mainland Asia. Since 1986, elephants has been listed as Endangered by IUCN as the population has declined by at least 50% over the last 60 to 75 years or three generations. Asian elephants are threatened by habitat loss, degradation and fragmentation.

Threats To Elephants

1	Illegal Hunting
2	Industrialization
3	Habit Loss
4	Fragmentation
5	Diseases

For further enquiries and reservations [Contact Us](#)

Note the following points while generating the Webpage:

- ✓ Link colour is red, background colour is yellow and visited link colour is green
- ✓ Title of the page is "wild life in India"
- ✓ Heading of the page is maroon
- ✓ Image used is "elephant.png"
- ✓ Caption of table is blue.
- ✓ Table border is blue and of size 2
- ✓ The email id for contact us is abc@xyz.com

○ Write the code to create the given table

Name	Class	English Marks	Maths Marks
Raghav	X	75	95
Ritvik	IX	85	92

Consider the following points while generating the webpage:

1. The title of the page is "Holiday HW".
2. Background color of the table is Yellow.
3. The headings are in Purple color.
4. Set the border color of the table as green.

Section-D- Chapter wise Revision Assignment

There will be 3 parts in each Revision Assignment from each Chapter :

Part-1 will include

- ✓ 2 question asking for Logical reasoning based with multiple choices
- ✓ 2 fill ups remembering based questions:

✓ **2 short answer questions on Subject terminology**

Part-2 will have 3 Application Based questions

Part-3- Logical reasoning based questions/ case study



R.E.D. Group of Schools

Revision Assignment Series (Session: 2022- 23)

Assignment No.:2

Class- 10th

Subject: Computer Application

Ch. No. & Name: Ch-4 HTML-II:Images, Links and Tables

Duration- 45 Mins.

PART -A

Q-1 Multiple Choice Questions: 1 X 2 = 2

- i The tag that starts a table cell is _____.
- | | |
|------------|---------|
| a) <Table> | b) <TR> |
| c) <TD> | d) <TC> |
- ii Combining two or more cells in a table on a web page is called:
- | | |
|--------------|----------------------|
| a) Combining | b) Spanning |
| c) Merging | d) None of the above |

Q-2 Fill in the blanks: 1 X 2 = 2

- i. attribute is used with <A> tag to specify the URL of the link.
- ii.tag is used to create inline images.

Q-3 Very Short Answer Types Questions: 1 X 2 = 2

- i. What is cellpadding?
- ii. What do you understand by the term inline image?

PART -B

Q-4 Short Answer Types Questions: 2 X 3 = 6

- i. Consider the following HTML statement:
 <BODY bgcolor="Blue" alink="red" vlink="yellow">
 In the above statement, what do you mean by alink and vlink?
- ii. Write the HTML code to send an email to abc@xyz.com through web page.
- iii. What is the difference between rowspan and colspan?

PART -C

Q-5 Case Study Based/ Long Answer Type Questions: 3 X 1 = 3

- i Rohit, a student of Class X, wants to represent a table in webpage but he is unaware about the table tags. Explain him the role of <TR> and <TD> tag.



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Revision Assignment Series (Session: 2022- 23)

Assignment No.: 03

Class- 10th

Subject: Computer Application

Ch. No. & Name: Ch-5 HTML III :Audio, Video and Forms **Duration-** 45 Mins.

PART -A

Q-1 Multiple Choice Questions: 1 X 2 = 2

- i. Which of the following are not valid tags for inserting audio file in an HTML page?
 - a) Embed
 - b) Sound
 - c) Audio
 - d) Music
- ii. Which are the ways to add a video file in a web page?
 - a) Linking via <a>
 - b) Embedding via <embed>
 - c) Embedding via <video>
 - d) All of these

Q-2 Fill in the blanks: 1 X 2 = 2

- i. In the absence ofattribute the audio player remain invisible.
- ii. To start an audio file automatically, use the attribute.

Q-3 Very Short Answer Types Questions: 1 X 2 = 2

- i. What are plug-ins?
- ii. Name the different audio format.

PART -B

Q-4 Short Answer Types Questions: 2 X 3 = 6

- i. Write the tags to define the following controls:
 - a) Text box
 - b) Radio button
- ii. How is a password text box is different from ordinary text box?
- iii. Differentiate between mp3 and mp4.

PART -C

Q-5 Case Study Based/ Long Answer Type Questions: 3 X 1 = 3

<html>

<body>

<video width="320" height="240" autoplay controls>

<source src="movie.mp4" type="video/.....">

Statement-1

<source src="movie.ogg" type="video/ogg">

Your browser does not support the video tag.

</.....>

Statement-2

</body>

</html>

Based on the given code , answer following questions :

- (i) Choose the correct option from the following to fill up in Statement 1 :
- | | |
|----------|-----------------|
| a. .mp4 | b. .ogg |
| c. .webm | d. All of these |
- (ii) Choose the correct option from the following to fill up in Statement 2 :
- | | |
|------------|--------------|
| a. <video> | b. </video > |
| c. <title> | d. <head> |
- (iii) What is the use of the attribute autoplay used with <video> tag?